



ledDATA

Focus on DALI and DALI+

Shenzhen Lighting Control Technology Co.,Ltd

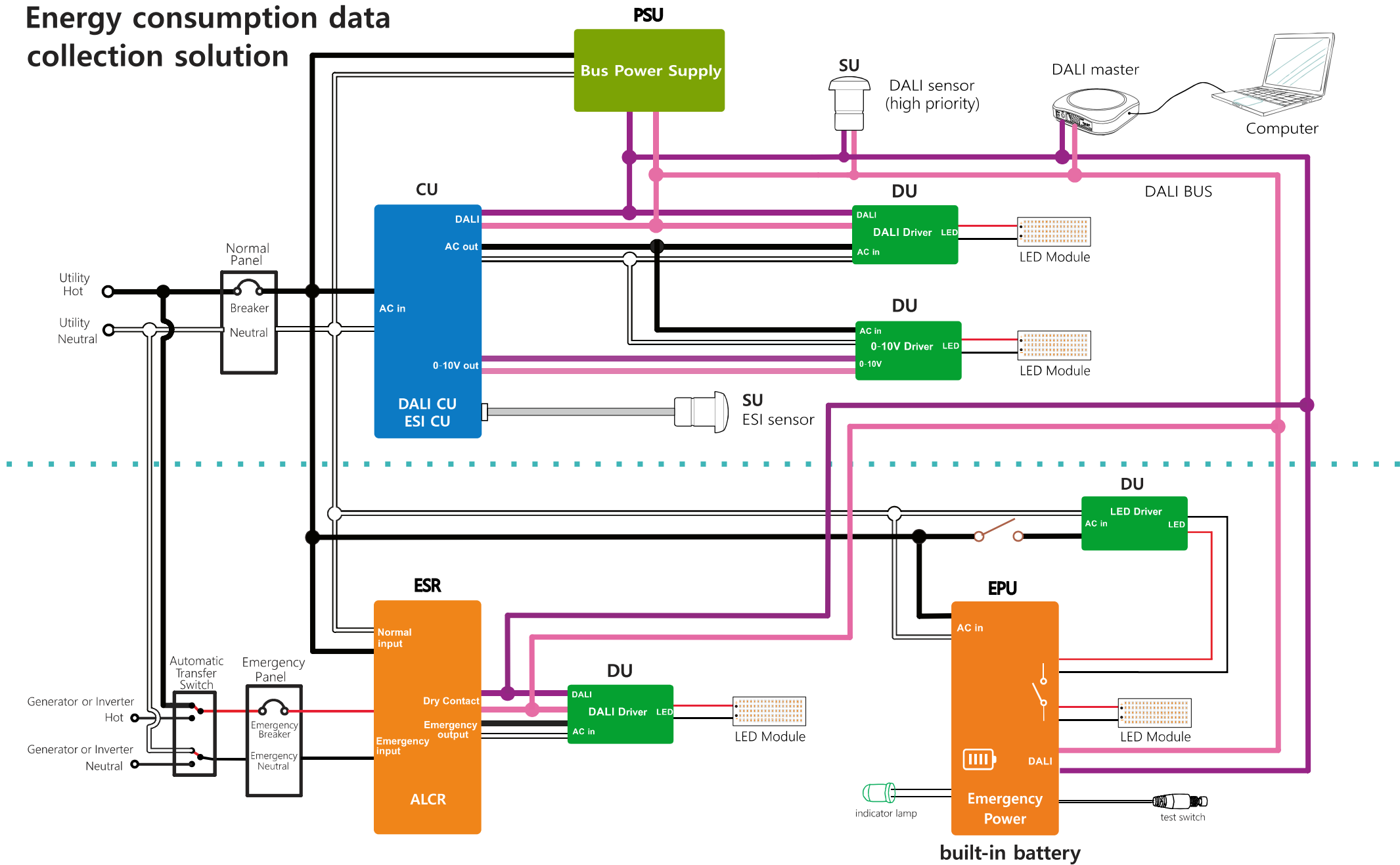
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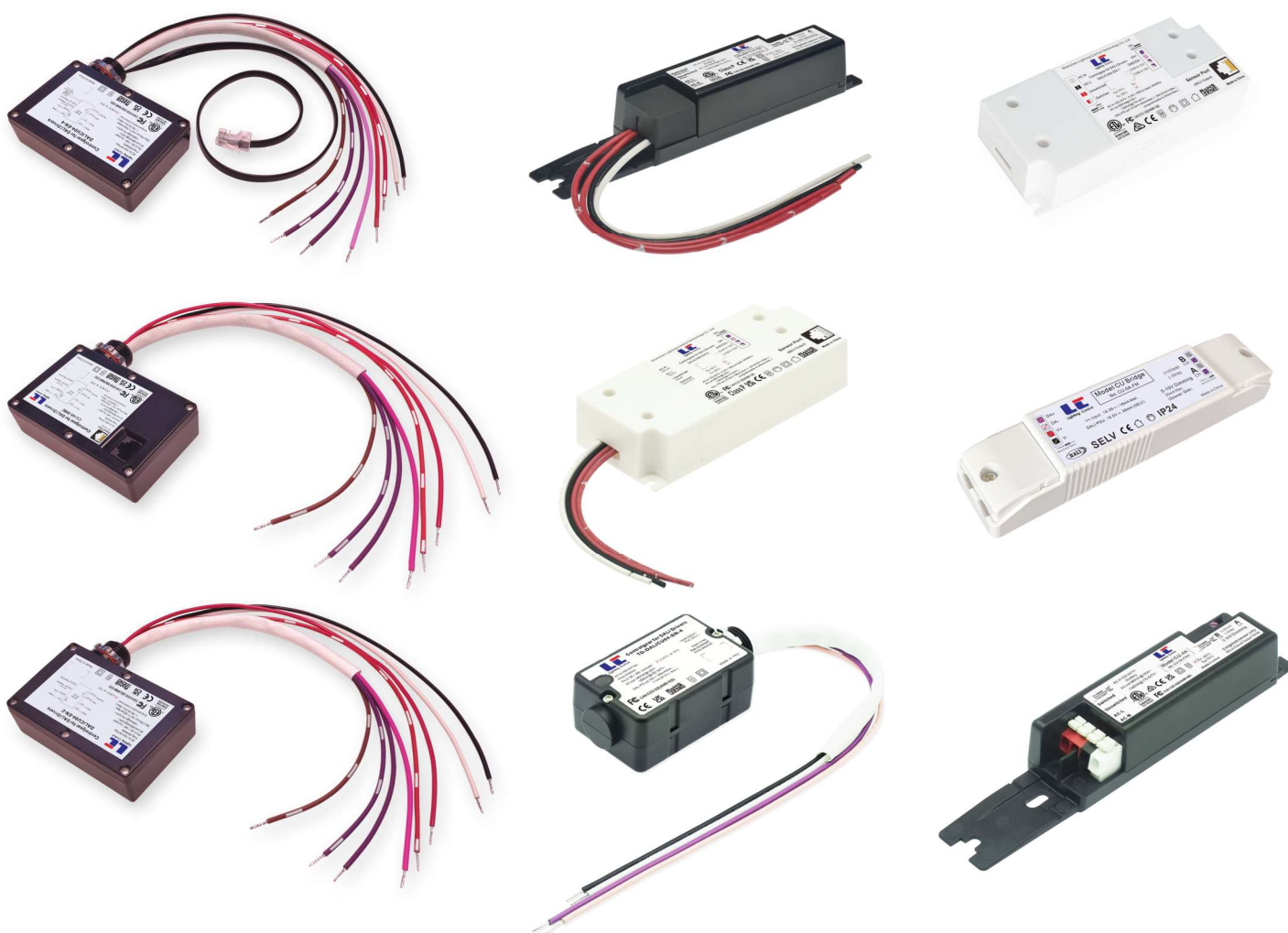
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Energy consumption data collection solution



Emergency lighting solution

Converter Unit series (CU)



DALI CU is a multi-function converter which features DALI communication, energy consumption measurement, power data collection, and conversion between different lighting dimming signals.

DALI CU has a built-in DALI bus PSU, saving costs and time for engineering construction. It supports both DALI-2 sensor and ESI sensor. When both sensors exist simultaneously, the DALI-2 sensor has priority to control the light.

ESI CU can read energy consumption data through the ESI interface, while converts 0-10V signals and digital commands to analog 0-10V outputs.

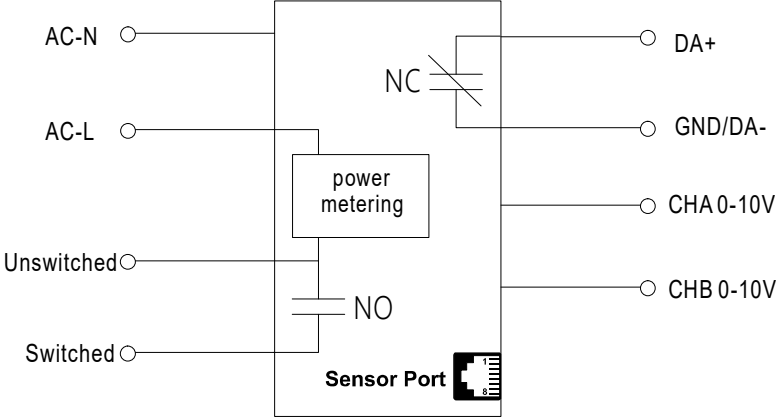
CU Bridge can select different operating modes through DALI interface, with a built-in programmable DALI bus PSU.

- Supports DT5 in standard mode which converts DALI dimming commands to analog 0-10V outputs.
- Supports DT6 and DT8 Tc in 0x80 mode which converts DALI dimming commands to analog 0-10V outputs.
- Supports converting 0-10V signals to DALI broadcast commands in 0x81 mode.

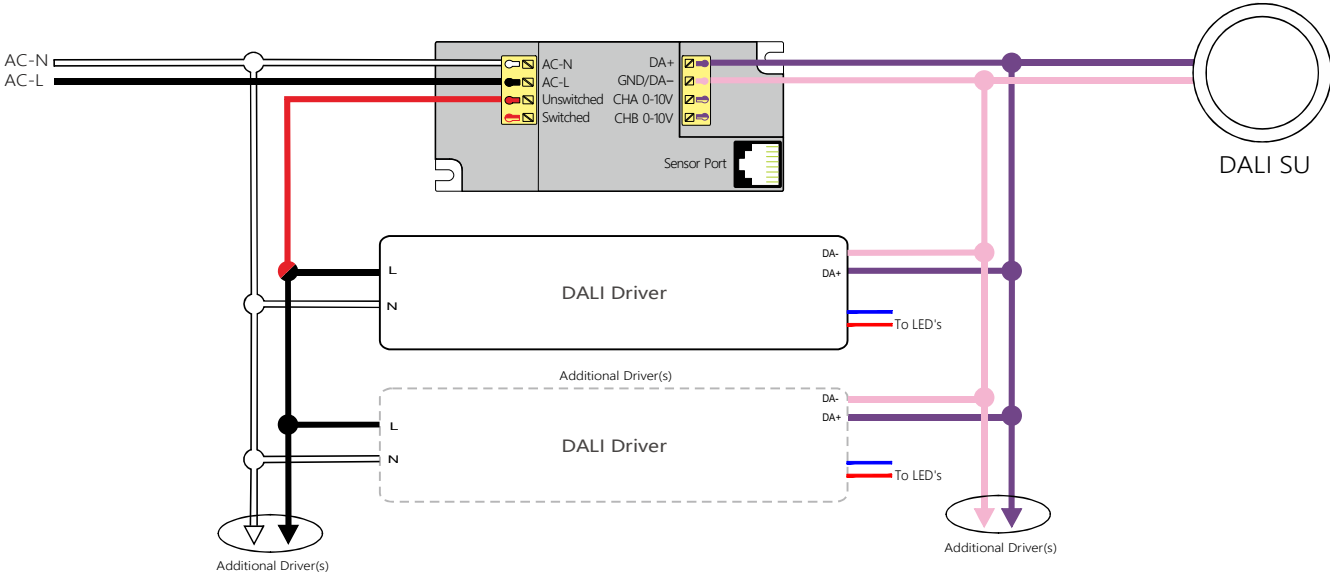
Product name	Model	Operating voltage	AC output Max.	AC output OCP	AC output switch	Energy consumption data	Mains data	DALI-2	Built-in bus PSU	ESI port	0-10V output	Protection Rating	Housing
DALI CU	TD-DALICU02-EN-0 FW54	200-240Vac	4.5A, 1035VA			yes	yes	yes	200mA	yes ○		IP24	fixture mount
	TD-DALICU02-EN-1 FW56	200-240Vac	4.5A, 1035VA			yes	yes	yes	200mA	yes ○		IP24	fixture mount
	DALICU04-EN-1A FW58	100-347Vac	8A, 1385VA	yes ○	yes	yes	yes	yes	55/200mA ○	yes ○	yes ○	IP24	fixture mount
	DALICU04-EN-1B FW58	100-277Vac	8A, 1385VA	yes ○	yes	yes	yes	yes	55/200mA ○	yes ○	yes ○	IP24	fixture mount
	DALICU04-EN-2 FW58	100-347Vac	8A, 1385VA	yes ○	yes	yes	yes	yes	55/200mA ○		yes ○	IP65	nipple mount
	DALICU04-EN-3 FW58	100-347Vac	8A, 1385VA	yes ○	yes	yes	yes	yes	55/200mA ○	yes ○	yes ○	IP24	nipple mount
	DALICU04-EN-4 FW58	100-347Vac	8A, 1385VA	yes ○	yes	yes	yes	yes	55/200mA ○	yes ○	yes ○	IP65	nipple mount
	DALICU04-EN-5 FW56	100-347Vac	8A, 1385VA	yes ○	yes	yes	yes	yes	55/200mA ○			IP65	nipple mount
	DALICU04-SL-FM FW56	100-277Vac	8A, 1385VA	yes ○	yes	yes	yes	yes			yes ○	IP24	fixture mount (break-off tab)
ESI CU	DALICU04-SL-NM-16A FW56	100-347Vac	16A, 5205VA	yes ○	yes	yes	yes	yes	55mA ○			IP65	nipple mount
	CU-4A-FM-A FW54	100-347Vac	8A, 1385VA	yes ○	yes	yes	yes		50mA ○	yes ○	yes ○	IP24	fixture mount (break-off tab)
	CU-4A-FM-B FW54	100-277Vac	8A, 1385VA	yes ○	yes	yes	yes		50mA ○	yes ○	yes ○	IP24	fixture mount (break-off tab)
	CU-4A-NME FW54	100-347Vac	8A, 1385VA	yes ○	yes	yes	yes		50mA ○	yes ○	yes ○	IP65	nipple mount
	CU-4A-NME-16A FW54	100-347Vac	16A, 5205VA	yes ○	yes	yes	yes		50mA ○	yes ○	yes ○	IP65	nipple mount
CU Bridge	CU-5A-FM FW57	15-36Vdc						yes	55mA		yes ○	IP24	fixture mount
	CU-5B-FM FW57	100-277Vac						yes	55mA		yes ○	IP24	fixture mount (break-off tab)

- ① When the output current exceeds 8.5A / 16.5A and lasts more than 20 seconds, the relay will turn off the SWITCH output to protect the device.
- ② The output current of DALI bus PSU can be switched at 55mA and 200mA.
- ③ ESI port is a RJ45 interface which is customized by Siemens and includes RS232 communication, 0-10V input signals and AUX power supply.
- ④ Peak currents up to 25mA are sourced and sunk by the analog 0-10V output per channel.
- ⑤ ESI PSU output.

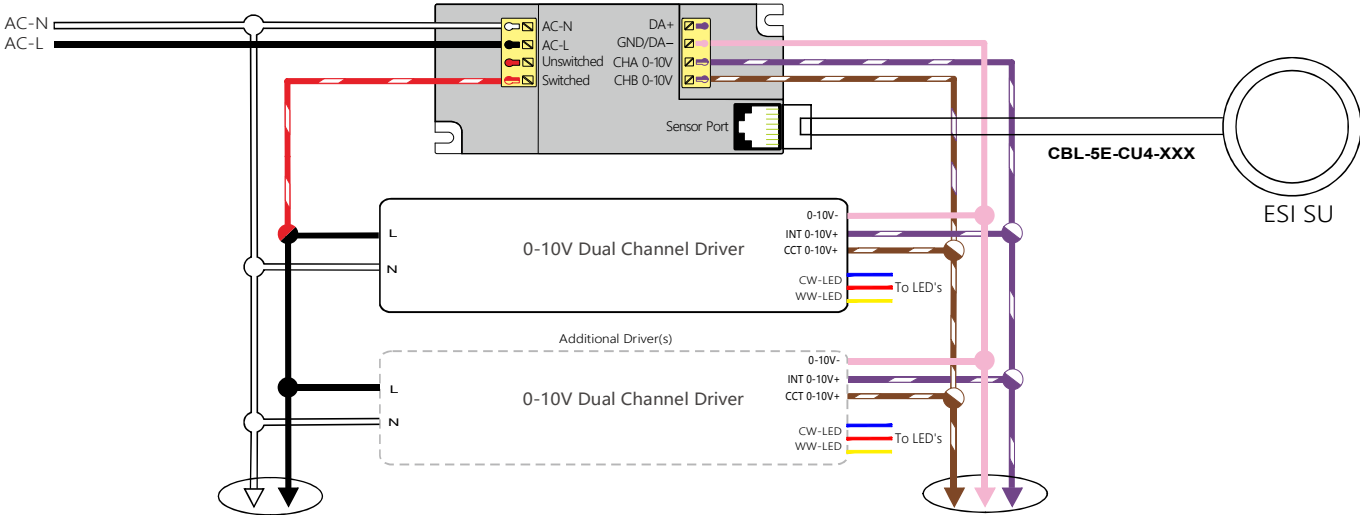
Schematic diagram



DALI sensor to DALI driver line diagram



ESI sensor to 0-10V driver line diagram



DALI CU

200~240Vac



Features

- It can measure power and internal temperature
- The data can be read by ESI interface
- Can convert 0-10V dimming signal or digital dimming commands into DALI broadcast command
- 2 models for option: digital command (default) and 0-10V signal dimming method
- 2 models for option: logarithmic (default) and linear dimming curve
- Built-in DALI bus PSU, 15V / 55mA
- ESI port AUX power output, 15V / 50mA
- AC Output Current: 4.5A Max.
- IP24 protection rating
- For luminaries of protection class II
- DALI and ESI interfaces are both compliant with SELV
- Communication protocol compatible with Enlighted Sensor Interface [ESI] Definition Rev 4.8



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Model Number	TD-DALICU02-EN-0 FW54
Full Product Name	DALI Controlgear
Line Voltage	200 ~ 240Vac
Line Current	0.1A Max. (AC out power is not included)
Line Frequency	50 / 60Hz
Min. Mains Voltage Operational	200Vac
Max. Mains Voltage Operational	240Vac
Inrush Current	COLD START $\leq 45A$ (twidh=50us measured at 10% Ipeak) @ 240Vac, Per NEMA 410
AC Output Current	4.5A (max.)
AC Output Inrush Current	120A, 10ms (max.)
DALI Output Voltage Typ.	15Vdc
DALI Guaranteed Output Current	55mA
ESI Port AUX VCC	Nominal 15Vdc (deviation 13Vdc to 17Vdc) @ 50mA
Protections	Short circuit protection of DA+ / DA-
Protection Rating	IP24
Ambient Temp Range	-20°C to +70°C
Dimensions	133×57×30mm

CU

06

DALI CU

200~240Vac



IS 15885
(Part 2/Sec 13)



R-41137693



CAN ICES-5(B)/NMB-5(B)



Features

- It can measure power and internal temperature
- The data can be read by ESI or DALI interface
- Can convert 0-10V dimming signal or digital dimming commands into DALI broadcast command
- Digital command (default) or 0-10V signal dimming method can be set by ESI
- Logarithmic or linear dimming curve can be set by DALI
- DALI 2-wire sensor (high priority) and ESI sensor supported
- DiiA/Zhaga connectivity extensions DT49, DT50, DT51, DT52
- Selection of the desired device type via operating mode
 - 0x00: IEC 62386-102 standard mode
 - 0x80: manufacturer specific mode (default)
- Built-in DALI PSU, 15V / 55mA
- ESI port AUX power output, 15V / 50mA
- AC Output Current: 4.5A Max.
- IP24 protection rating
- For luminaries of protection class II
- DALI and ESI interfaces are both compliant with SELV
- Communication protocol compatible with Enlighted Sensor Interface [ESI] Definition Rev 4.8

Model Number	TD-DALICU02-EN-1 FW56
Full Product Name	DALI Controlgear
Line Voltage	200 ~ 240Vac
Line Current	0.1A Max. (AC out power is not included)
Line Frequency	50 / 60Hz
Min. Mains Voltage Operational	200Vac
Max. Mains Voltage Operational	240Vac
Inrush Current	Cold Start $\leq 45A$ (twidth = 50us measured at 10% Ipeak) @ 240Vac, Per NEMA 410
AC Output Current	4.5A (max.)
AC Output Inrush Current	120A, 10ms (max.)
DALI Output Voltage Typ.	15Vdc
DALI Guaranteed Output Current	55mA
ESI Port AUX VCC	Nominal 15Vdc (deviation 13Vdc to 17Vdc) @ 50mA
Protections	Short circuit protection of DA+ / DA-
Protection Rating	IP24
Ambient Temp. Range	-20°C to +70°C
Dimensions	133×57×30mm

DALI CU

100~347Vac



FC CAN ICES-5(B)/NMB-5(B)



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RoHS COMPLIANT



Features

- It can measure power and internal temperature
- The data can be read by ESI or DALI interface
- Can convert 0-10V dimming signal or digital dimming commands into DALI broadcast command
- 2 CHs 0-10V dimming signals or digital dimming commands are buffered output
- Translate DALI dimming commands to 2 CHs analog 0-10V output (ChA: Intensity, ChB: CCT)
- Peak currents up to 25mA are sourced and sunk by 0-10V output per channel
- Digital command (default) or 0-10V signal dimming method can be set by ESI
- DALI 2-wire sensor (high priority) and ESI sensor supported
- DiiA/Zhaga connectivity extensions DT49, DT50, DT51, DT52
- Selection of the desired device type via operating mode
0x00: IEC 62386-102 standard mode
0x80: manufacturer specific mode, DT6, DT8 Tc supported (default)
- AC load relay can be switched off when dimming off by DALI
- AC load relay will switch off when dimming off by ESI
- Zero-crossing switching function for AC load relay
- DC signal relay will short-circuit DALI interface and physically disconnect 0-10V output interfaces in case of power loss
- Built-in DALI PSU, 15V / 55mA (programable to 200mA)
- ESI port AUX power output, 15V / 50mA
- AC output (Switched + Un-switched): 8A Max. @120Vac, 1385VA Max. @ 175Vac~347Vac
- Over current protection when load connects to Switched, and the failure information is recorded in NVM
- IP24 protection rating
- For luminaries of protection class II
- DALI / 0-10V and ESI interfaces are both compliant with SELV
- Communication protocol compatible with Enlighted Sensor Interface [ESI] Definition Rev 4.8

Model Number	DALICU04-EN-1A FW58
Full Product Name	DALI Controlgear
Line Voltage	100 ~ 347Vac
Line Current	0.1A Max. (AC output power is not included)
Line Frequency	50 / 60Hz
Min. Mains Voltage Operational	90Vac
Max. Mains Voltage Operational	370Vac
Inrush Current	Cold Start $\leq 70A$ (twidth = 50us measured at 10% Ipeak) @ 347Vac, Per NEMA 410
AC Output Current	8A / 120Vac, 6A / 230Vac, 5A / 277Vac, 4A / 347Vac
AC Output Inrush Current	180A, 10ms (max.)
Analog 0-10V Interface Max. Current	Sourcing / Sinking $\leq 25mA$
DALI Output Voltage Typ.	15Vdc
DALI Guaranteed Output Current	55mA
ESI Port AUX VCC	Nominal 15Vdc (deviation 13Vdc to 17Vdc) @ 50mA
Protections	Short circuit protection of DA+ / DA-
Protection Rating	IP24
Ambient Temp. Range	-20°C to +70°C
Dimensions	133×57×30mm

CU

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DALI CU

100~277Vac



FC CAN ICES-5(B)/NMB-5(B)



SELV

RoHS COMPLIANT



Features

- It can measure power and internal temperature
- The data can be read by ESI or DALI interface
- Can convert 0-10V dimming signal or digital dimming commands into DALI broadcast command
- 2 CHs 0-10V dimming signals or digital dimming commands are buffered output
- Translate DALI dimming commands to 2 CHs analog 0-10V output (ChA: Intensity, ChB: CCT)
- Peak currents up to 25mA are sourced and sunk by 0-10V output per channel
- Digital command (default) or 0-10V signal dimming method can be set by ESI
- DALI 2-wire sensor (high priority) and ESI sensor supported
- DiiA/Zhaga connectivity extensions DT49, DT50, DT51, DT52
- Selection of the desired device type via operating mode
0x00: IEC 62386-102 standard mode
0x80: manufacturer specific mode, DT6, DT8 Tc supported (default)
- AC load relay can be switched off when dimming off by DALI
- AC load relay will switch off when dimming off by ESI
- Zero-crossing switching function for AC load relay
- DC signal relay will short-circuit DALI interface and physically disconnect 0-10V output interfaces in case of power loss
- Built-in DALI PSU, 15V / 55mA (programable to 200mA)
- ESI port AUX power output, 15V / 50mA
- AC output (Switched + Un-switched): 8A Max. @ 120Vac, 1385VA Max. @ 175Vac~277Vac
- Over current protection when load connects to Switched, and the failure information is recorded in NVM
- IP24 protection rating
- For luminaries of protection class II
- DALI / 0-10V and ESI interfaces are both compliant with SELV
- Communication protocol compatible with Enlighted Sensor Interface [ESI] Definition Rev 4.8

Model Number	DALICU02-EN-1B FW58
Full Product Name	DALI Controlgear
Line Voltage	100 ~ 277Vac
Line Current	0.1A Max. (AC output power is not included)
Line Frequency	50 / 60Hz
Min. Mains Voltage Operational	90Vac
Max. Mains Voltage Operational	300Vac
Inrush Current	Cold Start $\leq 60A$ (twidth = 50us measured at 10% Ipeak) @ 277Vac, Per NEMA 410
AC Output Current	8A / 120Vac, 6A / 230Vac, 5A / 277Vac
AC Output Inrush Current	180A, 10ms (max.)
Analog 0-10V Interface Max. Current	Sourcing / Sinking $\leq 25mA$
DALI Output Voltage Typ.	15Vdc
DALI Guaranteed Output Current	55mA
ESI Port AUX VCC	Nominal 15Vdc (deviation 13Vdc to 17Vdc) @ 50mA
Protections	Short circuit protection of DA+ / DA-
Protection Rating	IP24
Ambient Temp. Range	-20°C to +70°C
Dimensions	133×57×30mm

DALI CU

100~347Vac

Plenum Rated



FC CAN ICES-5(B)/NMB-5(B)



IP65

Features

- It can measure power and internal temperature
- The data can be read by DALI interface
- Translate DALI dimming commands to 2 CHs analog 0-10V output (ChA: Intensity, ChB: CCT)
- Peak currents up to 25mA are sourced and sunk by 0-10V output per channel
- DiiA/Zhaga connectivity extensions DT49, DT50, DT51, DT52
- Selection of the desired device type via operating mode
0x00: IEC 62386-102 standard mode
0x80: manufacturer specific mode, DT6, DT8 Tc supported (default)
- AC load relay can be switched off when dimming off by DALI
- Zero-crossing switching function for AC load relay
- DC signal relay will short-circuit DALI interface and physically disconnect 0-10V output interfaces in case of power loss
- Built-in DALI PSU, 15V / 55mA (programmable to 200mA)
- AC output (Switched + Un-switched): 8A Max. @120Vac, 1385VA Max. @ 175Vac~347Vac
- Over current protection when load connects to Switched, and the failure information is recorded in NVM
- IP65 protection rating
- For luminaries of protection class II
- DALI / 0-10V interface is compliant with SELV

Model Number	DALICU04-EN-2 FW58
Full Product Name	DALI Controlgear
Line Voltage	100 ~ 347Vac
Line Current	0.1A Max. (AC output power is not included)
Line Frequency	50 / 60Hz
Min. Mains Voltage Operational	90Vac
Max. Mains Voltage Operational	370Vac
Inrush Current	Cold Start $\leq 70A$ (twidth = 50us measured at 10% Ipeak) @ 347Vac, Per NEMA 410
AC Output Current	8A / 120Vac, 6A / 230Vac, 5A / 277Vac, 4A / 347Vac
AC Output Inrush Current	180A, 10ms (max.)
Analog 0-10V Interface Max. Current	Sourcing / Sinking $\leq 25mA$
DALI Output Voltage Typ.	15Vdc
DALI Guaranteed Output Current	55mA
Protections	Short circuit protection of DA+ / DA-
Protection Rating	IP65
Ambient Temp. Range	-20°C to +70°C
Dimensions	95.3 × 60.4 × 26mm

CU

10

DALI CU

100~347Vac

Plenum Rated



FC CAN ICES-5(B)/NMB-5(B)



IP24

Features

- It can measure power and internal temperature
- The data can be read by ESI or DALI interface
- Can convert 0-10V dimming signal or digital dimming commands into DALI broadcast command
- 2 CHs 0-10V dimming signals or digital dimming commands are buffered output
- Translate DALI dimming commands to 2 CHs analog 0-10V output (ChA: Intensity, ChB: CCT)
- Peak currents up to 25mA are sourced and sunk by 0-10V output per channel
- Digital command (default) or 0-10V signal dimming method can be set by ESI
- DALI 2-wire sensor (high priority) and ESI sensor supported
- DiiA/Zhaga connectivity extensions DT49, DT50, DT51, DT52
- Selection of the desired device type via operating mode
 - 0x00: IEC 62386-102 standard mode
 - 0x80: manufacturer specific mode, DT6, DT8 Tc supported (default)
- AC load relay can be switched off when dimming off by DALI
- AC load relay will switch off when dimming off by ESI
- Zero-crossing switching function for AC load relay
- DC signal relay will short-circuit DALI interface and physically disconnect 0-10V output interfaces in case of power loss
- Built-in DALI PSU, 15V , 55mA (programable to 200mA)
- ESI port AUX power output, 15V / 50mA
- AC output (Switched + Un-switched): 8A Max. @120Vac, 1385VA Max. @ 175Vac~347Vac
- Over current protection when load connects to Switched, and the failure information is recorded in NVM
- IP24 protection rating
- For luminaries of protection class II
- DALI / 0-10V and ESI interfaces are both compliant with SELV
- Communication protocol compatible with Enlighted Sensor Interface [ESI] Definition Rev 4.8

Model Number	DALICU04-EN-3 FW58
Full Product Name	DALI Controlgear
Line Voltage	100 ~ 347Vac
Line Current	0.1A Max. (AC output power is not included)
Line Frequency	50 / 60Hz
Min. Mains Voltage Operational	90Vac
Max. Mains Voltage Operational	370Vac
Inrush Current	Cold Start ≤ 70A (twidh = 50us measured at 10% Ipeak) @ 347Vac, Per NEMA 410
AC Output Current	8A / 120Vac, 6A / 230Vac, 5A / 277Vac, 4A / 347Vac
AC Output Inrush Current	180A, 10ms (max.)
Analog 0-10V Interface Max. Current	Sourcing / Sinking ≤ 25mA
DALI Output Voltage Typ.	15Vdc
DALI Guaranteed Output Current	55mA
ESI Port AUX VCC	Nominal 15Vdc (deviation 13Vdc to 17Vdc) @ 50mA
Protections	Short circuit protection of DA+ / DA-
Protection Rating	IP24
Ambient Temp. Range	-20°C to +70°C
Dimensions	95.3 × 60.4 × 26mm

DALI CU

100~347Vac

Plenum Rated



FC CAN ICES-5(B)/NMB-5(B)



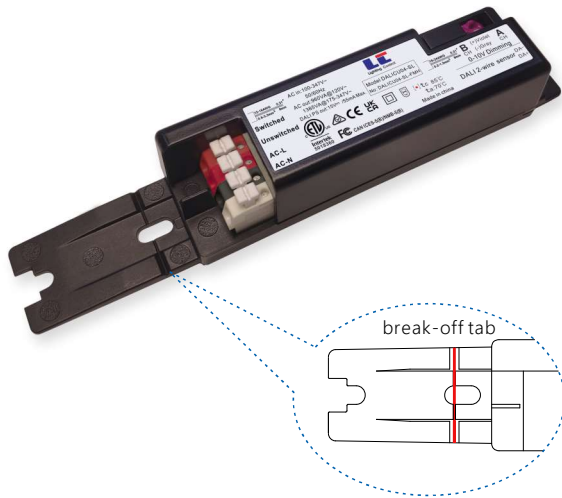
Features

- It can measure power and internal temperature
- The data can be read by ESI or DALI interface
- Can convert 0-10V dimming signal or digital dimming commands into DALI broadcast command
- 2 CHs 0-10V dimming signals or digital dimming commands are buffered output
- Translate DALI dimming commands to 2 CHs analog 0-10V output (ChA: Intensity, ChB: CCT)
- Peak currents up to 25mA are sourced and sunk by 0-10V output per channel
- Digital command (default) or 0-10V signal dimming method can be set by ESI
- DALI 2-wire sensor (high priority) and ESI sensor supported
- DiiA/Zhaga connectivity extensions DT49, DT50, DT51, DT52
- Selection of the desired device type via operating mode
 - 0x00: IEC 62386-102 standard mode
 - 0x80: manufacturer specific mode, DT6, DT8 Tc supported (default)
- AC load relay can be switched off when dimming off by DALI
- AC load relay will switch off when dimming off by ESI
- Zero-crossing switching function for AC load relay
- DC signal relay will short-circuit DALI interface and physically disconnect 0-10V output interfaces in case of power loss
- Built-in DALI PSU, 15V , 55mA (programable to 200mA)
- ESI port AUX power output, 15V / 50mA
- AC output (Switched + Un-switched): 8A Max. @120Vac, 1385VA Max. @ 175Vac~347Vac
- Over current protection when load connects to Switched, and the failure information is recorded in NVM
- IP24 protection rating
- For luminaries of protection class II
- DALI / 0-10V and ESI interfaces are both compliant with SELV
- Communication protocol compatible with Enlighted Sensor Interface [ESI] Definition Rev 4.8

Model Number	DALICU04-EN-4 FW58
Full Product Name	DALI Controlgear
Line Voltage	100 ~ 347Vac
Line Current	0.1A Max. (AC output power is not included)
Line Frequency	50 / 60Hz
Min. Mains Voltage Operational	90Vac
Max. Mains Voltage Operational	370Vac
Inrush Current	Cold Start $\leq 70A$ (twitdh = 50us measured at 10% Ipeak) @ 347Vac, Per NEMA 410
AC Output Current	8A / 120Vac, 6A / 230Vac, 5A / 277Vac, 4A / 347Vac
AC Output Inrush Current	180A, 10ms (max.)
Analog 0-10V Interface Max. Current	Sourcing / Sinking $\leq 25mA$
DALI Output Voltage Typ.	15Vdc
DALI Guaranteed Output Current	55mA
ESI Port AUX VCC	Nominal 15Vdc (deviation 13Vdc to 17Vdc) @ 50mA
Protections	Short circuit protection of DA+ / DA-
Protection Rating	IP65
Ambient Temp. Range	-20°C to +70°C
Dimensions	95.3 × 60.4 × 26mm

DALI CU

100~277Vac



If removing the break-off tab along the red line in the picture below, the length of case will reduce from 160mm to 124mm, and the width and height of case remain the same.

Features

- It can measure power and internal temperature
- The data can be read by DALI interface
- Translate DALI dimming commands to 2 CHs analog 0-10V output (ChA: Intensity, ChB: CCT)
- Peak currents up to 25mA are sourced and sunk by 0-10V output per channel
- DiiA/Zhaga connectivity extensions DT49, DT50, DT51, DT52
- Selection of the desired device type via operating mode
0x00: IEC 62386-102 standard mode, DT5 supported
0x80: manufacturer specific mode, DT6, DT8 Tc supported (default)
- AC load latching relay can be switched off when dimming off by DALI
- Zero-crossing switching function for AC load latching relay
- Built-in DALI PSU, 15V , 55mA
- AC output (Switched + Un-switched): 8A Max. @120Vac, 1385VA Max. @ 175Vac~277Vac
- Over current protection when load connects to Switched, and the failure information is recorded in NVM
- IP24 protection rating
- For luminaries of protection class II
- DALI / 0-10V interface is compliant with SELV
- The full-length mounting or the break-off tab can be removed to create a smaller form factor for a reduced footprint



SELV

RoHS
COMPLIANT



Model Number	DALICU04-SL-FM FW56
Full Product Name	DALI Controlgear
Line Voltage	100 ~ 277Vac
Line Current	0.1A Max. (AC output power is not included)
Line Frequency	50 / 60Hz
Min. Mains Voltage Operational	90Vac
Max. Mains Voltage Operational	300Vac
Inrush Current	Cold Start ≤ 60A (twidth = 50us measured at 10% Ipeak) @ 277Vac, Per NEMA 410
AC Output Current	8A / 120Vac, 6A / 230Vac, 5A / 277Vac
AC Output Inrush Current	180A, 10ms (max.)
Analog 0-10V Interface Max. Current	Sourcing / Sinking ≤ 25mA
DALI Output Voltage Typ.	15Vdc
DALI Guaranteed Output Current	55mA
Protections	Short circuit protection of DA+ / DA-
Protection Rating	IP24
Ambient Temp. Range	-20°C to +70°C
Dimensions	160×30×25mm

DALI CU

100~347Vac

Plenum Rated



Features

- It can measure power and internal temperature
- The data can be read by DALI interface
- Translate DALI dimming commands to 2 CHs analog 0-10V output (ChA: Intensity, ChB: CCT)
- Peak currents up to 25mA are sourced and sunk by 0-10V output per channel
- DiiA/Zhaga connectivity extensions DT49, DT50, DT51, DT52
- Selection of the desired device type via operating mode
0x00: IEC 62386-102 standard mode, DT5 supported
0x80: manufacturer specific mode, DT6, DT8 Tc supported (default)
- AC load latching relay can be switched off when dimming off by DALI
- Zero-crossing switching function for AC load latching relay
- Built-in DALI PSU, 15V , 55mA
- AC output (Switched + Un-switched): 8A Max. @120Vac, 1385VA Max. @ 175Vac~347Vac
- IP65 protection rating
- For luminaries of protection class II
- DALI / 0-10V interface is compliant with SELV
- The full-length mounting or the break-off tab can be removed to create a smaller form factor for a reduced footprint



SELV

RoHS
COMPLIANT



Model Number	DALICU04-EN-5 FW56
Full Product Name	DALI Controlgear
Line Voltage	100 ~ 347Vac
Line Current	0.1A Max. (AC output power is not included)
Line Frequency	50 / 60Hz
Min. Mains Voltage Operational	90Vac
Max. Mains Voltage Operational	370Vac
Inrush Current	Cold Start ≤70A (twidth = 50us measured at 10% Ipeak) @ 347Vac, Per NEMA 410
AC Output Current	8A / 120Vac, 6A / 230Vac, 5A / 277Vac, 4A / 347Vac
AC Output Inrush Current	180A, 10ms (max.)
Analog 0-10V Interface Max. Current	Sourcing / Sinking ≤ 25mA
DALI Output Voltage Typ.	15Vdc
DALI Guaranteed Output Current	55mA
Protections	Short circuit protection of DA+ / DA-
Protection Rating	IP65
Ambient Temp. Range	-20°C to +70°C
Dimensions	95.5×49×33mm

CU

14

DALI CU

100~347Vac

Plenum Rated



IS 15885
(Part 2/Sec 13)
R-41137693



SELV

RoHS
COMPLIANT



Features

- It can measure power and internal temperature
- The data can be read by DALI interface
- Translate DALI dimming commands to 2 CHs analog 0-10V output (ChA: Intensity, ChB: CCT)
- Peak currents up to 25mA are sourced and sunk by 0-10V output per channel
- DiiA/Zhaga connectivity extensions DT49, DT50, DT51, DT52
- Selection of the desired device type via operating mode
0x00: IEC 62386-102 standard mode, DT5 supported
0x80: manufacturer specific mode, DT6, DT8 Tc supported (default)
- AC load latching relay can be switched off when dimming off by DALI
- Zero-crossing switching function for AC load latching relay
- Built-in DALI PSU, 15V , 55mA
- AC output (Switched): 2000VA Max. @ 120Vac
3700VA Max. @ 230Vac
4500VA Max. @ 277Vac
5205VA Max. @ 347Vac
- Over current protection when load connects to Switched, and the failure information is recorded in NVM
- IP65 protection rating
- For luminaries of protection class II
- DALI / 0-10V interface is compliant with SELV
- The full-length mounting or the break-off tab can be removed to create a smaller form factor for a reduced footprint

Model Number	DALICU04-SL-NM-16A FW56
Full Product Name	DALI Controlgear
Line Voltage	100 ~ 347Vac
Line Current	0.1A Max. (AC out power is not included)
Line Frequency	50 / 60Hz
Min. Mains Voltage Operational	90Vac
Max. Mains Voltage Operational	370Vac
Inrush Current	Cold Start $\leq 70A$ (twidh = 50us measured at 10% Ipeak) @ 347Vac, Per NEMA 410
AC Output Current	16A / 100 ~ 347Vac
AC Output Inrush Current	180A, 10ms (max.)
DALI Output Voltage Typ.	15Vdc
DALI Guaranteed Output Current	55mA
ESI Port AUX VCC	Nominal 15Vdc (deviation 13Vdc to 17Vdc) @ 50mA
Protections	Short circuit protection of DA+ / DA-
Protection Rating	IP65
Ambient Temp Range	-20°C to +70°C
Dimensions	95.3×60.4×26mm

ESI CU

100~347Vac

Plenum Rated



FC CAN ICES-5(B)/NMB-5(B)

IS 15885
(Part 2/Sec 13)



R-41137693

CE UK CA SELV RoHS COMPLIANT



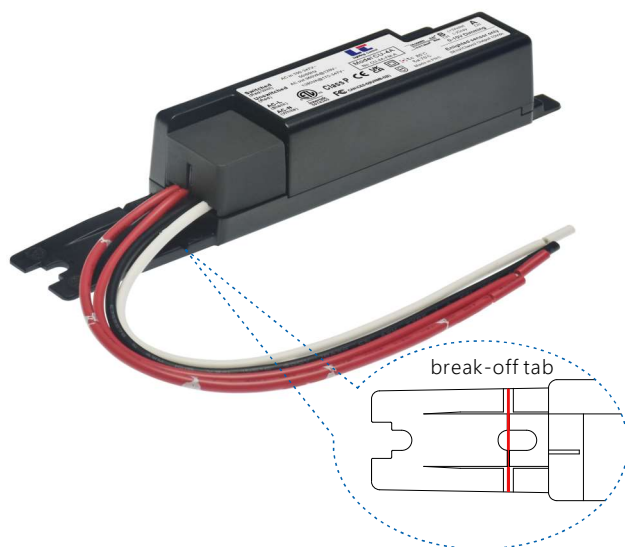
Features

- It can measure power and internal temperature
- The data can be read by ESI interface
- 2 CHs 0-10V dimming signals or digital dimming commands are buffered output
- Peak currents up to 25mA are sourced and sunk by 0-10V output per channel
- 0-10V signal (default) or digital command dimming method can be set by ESI
- AC load relay will switch off when dimming off by ESI
- Zero-crossing switching function for AC load relay
- ESI port AUX power output, 15V / 50mA
- AC output (Switched): 2000VA Max. @ 120Vac
3700VA Max. @ 230Vac
4500VA Max. @ 277Vac
5205VA Max. @ 347Vac
- Over current protection when load connects to Switched, and the failure information is recorded in NVM
- IP24 protection rating
- For luminaries of protection class II
- 0-10V and ESI interfaces are both compliant with SELV
- Communication protocol compatible with Enlighted Sensor Interface [ESI] Definition Rev 4.8

Model Number	CU-4A-NME-16A FW54
Full Product Name	ESI Controlgear
Line Voltage	100 ~ 347Vac
Line Current	0.1A Max. (AC output power is not included)
Line Frequency	50 / 60Hz
Min. Mains Voltage Operational	90Vac
Max. Mains Voltage Operational	370Vac
Inrush Current	Cold Start $\leq 70A$ (twidth = 50us measured at 10% Ipeak) @ 347Vac, Per NEMA 410
AC Output Current	16A / 100 ~ 347Vac
AC Output Inrush Current	180A, 10ms (max.)
Analog 0-10V Interface Max. Current	Sourcing / Sinking $\leq 25mA$
ESI Port AUX VCC	Nominal 15Vdc (deviation 13Vdc to 17Vdc) @50mA
Protection Rating	IP24
Ambient Temp. Range	-20°C to +70°C
Dimensions	95.3 × 60.4 × 26mm

ESI CU

100~347Vac



If removing the break-off tab along the red line in the picture below, the length of case will reduce from 160mm to 124mm, and the width and height of case remain the same.

Features

- It can measure power and internal temperature
- The data can be read by ESI interface
- 2 CHs 0-10V dimming signals or digital dimming commands are buffered output
- Peak currents up to 25mA are sourced and sunk by 0-10V output per channel
- 0-10V signal (default) or digital command dimming method can be set by ESI
- Zero-crossing switching function for AC load latching relay
- AC load latching relay to minimize the standby power consumption
- ESI port AUX power output, 15V / 50mA
- AC output (Switched + Un-switched): 8A Max. @120Vac, 1385VA Max. @ 175Vac~347Vac
- Over current protection when load connects to Switched, and the failure information is recorded in NVM
- IP24 protection rating
- For luminaries of protection class II
- 0-10V and ESI interfaces are both compliant with SELV
- Communication protocol compatible with Enlighted Sensor
- Interface [ESI] Definition Rev 4.8
- The full-length mounting or the break-off tab can be removed to create a smaller form factor for a reduced footprint



FC CAN ICES-5(B)/NMB-5(B)



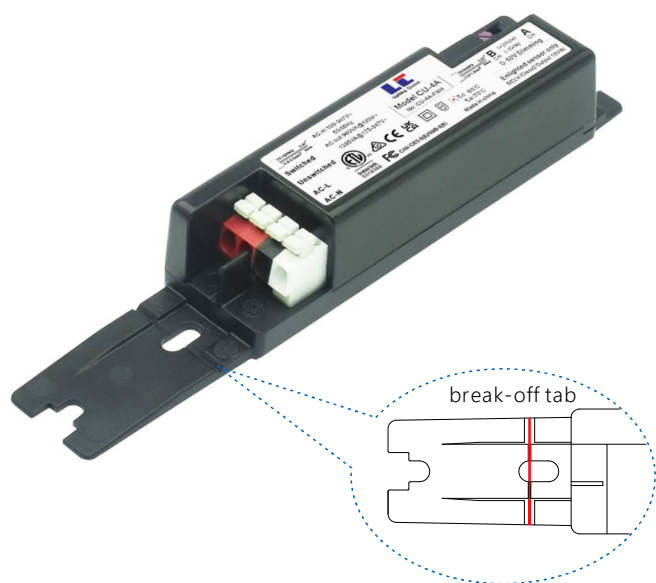
Model Number	CU-4A-FM-A FW54
Full Product Name	ESI Controlgear
Line Voltage	100 ~ 347Vac
Line Current	0.1A Max. (AC output power is not included)
Line Frequency	50 / 60Hz
Min. Mains Voltage Operational	90Vac
Max. Mains Voltage Operational	370Vac
Inrush Current	Cold Start $\leq 70A$ (twidh = 50us measured at 10% Ipeak) @ 347Vac, Per NEMA 410
AC Output Current	8A / 120Vac, 6A / 230Vac, 5A / 277Vac, 4A / 347Vac
AC Output Inrush Current	180A, 10ms (max.)
Analog 0-10V Interface Max. Current	Sourcing / Sinking $\leq 25mA$
ESI Port AUX VCC	Nominal 15Vdc (deviation 13Vdc to 17Vdc) @50mA
Protection Rating	IP24
Ambient Temp. Range	-20°C to +70°C
Dimensions	160×30×25mm

CU

17

ESI CU

100~277Vac



If removing the break-off tab along the red line in the picture below, the length of case will reduce from 160mm to 124mm, and the width and height of case remain the same.



FC CAN ICES-5(B)/NMB-5(B)



Features

- It can measure power and internal temperature
- The data can be read by ESI interface
- 2 CHs 0-10V dimming signals or digital dimming commands are buffered output
- Peak currents up to 25mA are sourced and sunk by 0-10V output per channel
- 0-10V signal (default) or digital command dimming method can be set by ESI
- Zero-crossing switching function for AC load latching relay
- AC load latching relay to minimize the standby power consumption
- ESI port AUX power output, 15V / 50mA
- AC output (Switched + Un-switched): 8A Max. @120Vac, 1385VA Max. @ 175Vac~277Vac
- Over current protection when load connects to Switched, and the failure information is recorded in NVM
- IP24 protection rating
- For luminaries of protection class II
- 0-10V and ESI interfaces are both compliant with SELV
- Communication protocol compatible with Enlighted Sensor Interface [ESI] Definition Rev 4.8
- The full-length mounting or the break-off tab can be removed to create a smaller form factor for a reduced footprint

Model Number	CU-4A-FM-B FW54
Full Product Name	ESI Controlgear
Line Voltage	100 ~ 277Vac
Line Current	0.1A Max. (AC out power is not included)
Line Frequency	50 / 60Hz
Min. Mains Voltage Operational	90Vac
Max. Mains Voltage Operational	300Vac
Inrush Current	Cold Start $\leq 60A$ (twidth = 50us measured at 10% Ipeak) @ 277Vac, Per NEMA 410
AC Output Current	8A / 120Vac, 6A / 230Vac, 5A / 277Vac
AC Output Inrush Current	180A, 10ms (max.)
Analog 0-10V Interface Max. Current	Sourcing / Sinking $\leq 25mA$
ESI Port AUX VCC	Nominal 15Vdc (deviation 13Vdc to 17Vdc) @50mA
Protection Rating	IP24
Ambient Temp. Range	-20°C to +70°C
Dimensions	160×30×25mm

CU

18

ESI CU

100~347Vac

Plenum Rated



Features

- It can measure power and internal temperature
- The data can be read by ESI interface
- 2 CHs 0-10V dimming signals or digital dimming commands are buffered output
- Peak currents up to 25mA are sourced and sunk by 0-10V output per channel
- 0-10V signal (default) or digital command dimming method can be set by ESI
- AC load relay will switch off when dimming off by ESI
- Zero-crossing switching function for AC load relay
- ESI port AUX power output, 15V / 50mA
- AC output (Switched + Un-switched): 8A Max. @ 120Vac, 1385VA Max. @ 175Vac~347Vac
- Over current protection when load connects to Switched, and the failure information is recorded in NVM
- IP24 protection rating
- For luminaries of protection class II
- 0-10V and ESI interfaces are both compliant with SELV
- Communication protocol compatible with Enlighted Sensor Interface [ESI] Definition Rev 4.8



FC CAN ICES-5(B)/NMB-5(B)



Model Number	CU-4A-NME FW54
Full Product Name	ESI Controlgear
Line Voltage	100 ~ 347Vac
Line Current	0.1A Max. (AC output power is not included)
Line Frequency	50 / 60Hz
Min. Mains Voltage Operational	90Vac
Max. Mains Voltage Operational	370Vac
Inrush Current	Cold Start $\leq 70A$ (twitdh = 50us measured at 10% Ipeak) @ 347Vac, Per NEMA 410
AC Output Current	8A / 120Vac, 6A / 230Vac, 5A / 277Vac, 4A / 347Vac
AC Output Inrush Current	180A, 10ms (max.)
Analog 0-10V Interface Max. Current	Sourcing / Sinking $\leq 25mA$
ESI Port AUX VCC	Nominal 15Vdc (deviation 13Vdc to 17Vdc) @50mA
Protection Rating	IP24
Ambient Temp. Range	-20°C to +70°C
Dimensions	95.3 × 60.4 × 26mm

CU Bridge

15~36Vdc



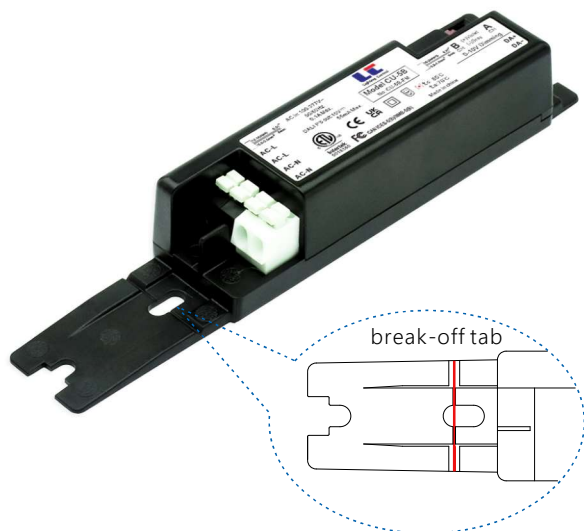
Features

- 0-10V dimming input signals (ChA: Intensity, ChB: CCT) are converted to DALI broadcast commands
- Translate DALI dimming commands to 2 CHs analog 0-10V output (ChA: Intensity, ChB: CCT)
- Conversion from DALI digital signal into DC voltage (ChA / ChB: Intensity)
- Peak currents up to 25mA are sourced and sunk by 0-10V output per channel
- An external DALI bus PSU can be used to power the CU (0-10V output works in sinking mode)
- When powered by V+ / V-, the CU can provide a DALI bus PSU with guaranteed output current of 55mA (DT49 supported)
- Selection of the desired device type via operating mode
 - 0x00: IEC 62386 - 102 standard mode, DT5 supported
 - 0x80: DALI dimming commands to analog 0-10V outputs mode, DT6, DT8 Tc supported (default)
 - 0x81: 0-10V dimming signals to DALI commands broadcast mode
- IP24 protection rating
- V+ / V- input, DALI and 0-10V interfaces are all compliant with SELV

Model Number	CU-5A-FM FW57
Full Product Name	CU Bridge
Operating Voltage	15 ~ 36Vdc
Analog 0-10V Interface Max. Current	Sourcing / Sinking ≤ 25mA
DALI Output Voltage Typ.	15Vdc
DALI Guaranteed Output Current	55mA
Protection Rating	IP24
Ambient Temp. Range	-20°C to +70°C
Dimensions	130×30×20mm

CU Bridge

100~277Vac



If removing the break-off tab along the red line in the picture below, the length of case will reduce from 160mm to 124mm, and the width and height of case remain the same.



Features

- 0-10V dimming input signals (ChA: Intensity, ChB: CCT) are converted to DALI broadcast commands
- Translate DALI dimming commands to 2 CHs analog 0-10V output (ChA: Intensity, ChB: CCT)
- Conversion from DALI digital signal into DC voltage (ChA / ChB: Intensity)
- Peak currents up to 25mA are sourced and sunk by 0-10V output per channel
- DiiA/Zhaga connectivity extensions DT49, DT50, DT51, DT52
- Selection of the desired device type via operating mode
0x00: IEC 62386 - 102 standard mode, DT5 supported
0x80: DALI dimming commands to analog 0-10V outputs mode, DT6, DT8 Tc supported (default)
0x81: 0-10V dimming signals to DALI commands broadcast mode
- Built-in DALI PSU, 15V / 55mA
- IP24 protection rating
- DALI and 0-10V interfaces are both compliant with SELV

Model Number	CU-5B-FM FW57
Full Product Name	CU Bridge
Line Voltage	100 ~ 277Vac
Line Current	0.1A Max.
Line Frequency	50 / 60Hz
Min. Mains Voltage Operational	90Vac
Max. Mains Voltage Operational	300Vac
Inrush Current	Cold Start $\leq 60A$ (twidth = 50us measured at 10% Ipeak) @ 277Vac, Per NEMA 410
Analog 0-10V Interface Max. Current	Sourcing / Sinking $\leq 25mA$
DALI Output Voltage Typ.	15Vdc
DALI Guaranteed Output Current	55mA
Protection Rating	IP24
Ambient Temp. Range	-20°C to +70°C
Dimensions	160×30×25mm

Driver Unit (DU) DALI-2 LED Drivers

LCA: linear LCE: ceiling
LCO: outdoor LCV: constant voltage
LCH: outdoor high power

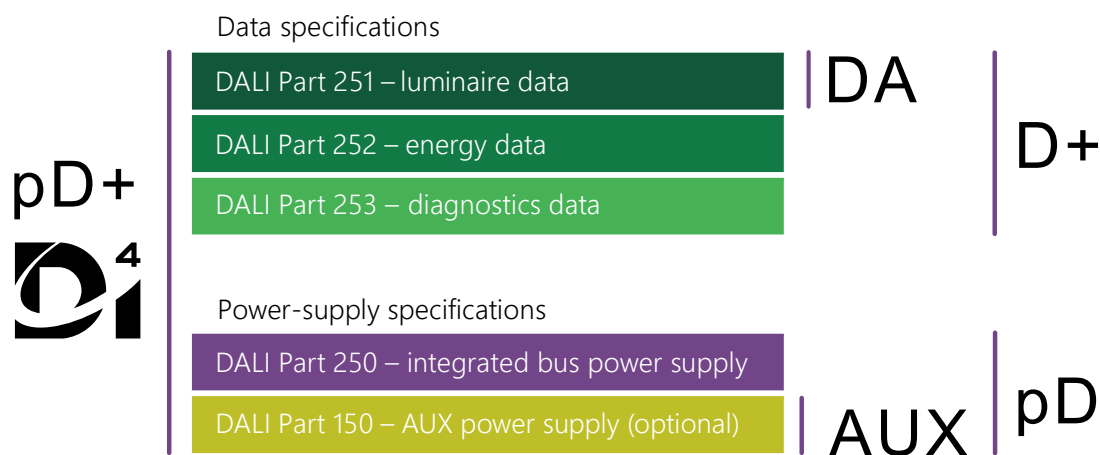


DALI-2 LED driver

ledDATA for SLC drivers

Three DALI data specifications in one label

SLC uses ledDATA to refer to the latest DALI-2 specifications for the transmission of various types of data. For example, lighting-specific settings can be viewed via DALI-2 Part 251 and used for commissioning and managing the lighting system. DALI-2 Part 252 provides information about energy consumption, while DALI-2 Part 253 supplies essential data to enable faults to be quickly diagnosed and preventive maintenance work to be carried out.



ledDATA— the three data specifications
Features and possible uses

DALI–2 Part 251 luminaire data	DALI–2 Part 252 energy data	DALI–2 Part 253 diagnostic data
• OEM identification number • OEM GTIN • Luminaire port, power & voltage • Luminous flux • CCT & CRI • Light distribution • Luminaire colour The data can be imported during production. The data makes it possible to identify the luminaires during installation and operation and for asset management purposes. State-of-the-art automated commissioning will become possible using this data. The data allows facility managers to efficiently monitor and control the installed luminaires.	• Active power and energy Reports the power consumption of every luminaire in the entire installation. Energy consumption dashboards can be created using this energy data.	• LED driver information: Operating hours, switch-on counter, input voltage and frequency, temperature and output current. • DC (secondary) connector Information: Forward bias, switch-on counter of LED module, operating hours of LED module This data enables predictive maintenance, simplifies complaints management and makes fault identification easier in defective devices (e. g. overvoltage, overtemperature).

DALI-2 LED driver

Product type naming system

Product Series	Power	Output Current	Output Voltage	Dimming Interface	Additional Information	Form Factors
LCA: linear LCE: ceiling LCO: outdoor LCH: outdoor high power LCV: constant voltage	10W } 200W	100mA } 4160mA	15V } 285V	pD+: DALI + D4i D+: DALI + Part 251-253 pD: DALI + Part 250 DA: DALI + Part 251	AUX: 24V AUX TW: DT8 Tc UNV: universal wide voltage	lm: linear metal lp: linear plastic sp: square plastic spm: Square metal al: aluminum

		LCA	LCE	LCO	LCH	LCV
Dimming	Dimming interface	DALI	DALI	DALI	DALI	DALI
DC operation	Supporting EN 50172	yes	yes	yes		
	DC level adjustable	yes	yes	yes		
Output current	Adjustable via DALI	yes	yes	yes	yes	yes
	Current tolerances	± 1%	± 1%	± 1%	± 3 %	
Interfaces	DALI-2 / switchDIM	yes	yes	yes	yes	yes
Functions & Performance	Tunable White DT8	yes	yes	yes		yes
	DT6	yes	yes	yes	yes	yes
	Integrated 24V low-voltage supply	yes	yes	yes		
	Integrated DALI bus PSU	yes	yes	yes		
	Energy consumption data	yes	yes	yes		
	Diagnosis and maintenance data	yes	yes	yes		
	Emergency lighting (EL)	yes	yes	yes		
	Power range	30~75 W	18~75 W	50~90 W	75~200W	30~90 W
	Standby losses	< 0.3 W	< 0.5 W	< 0.5 W	< 0.5 W	< 0.3 W
	Output current ripple (LF)	± 3 %	± 3 %	± 3 %	± 3 %	± 3 %
	Operating temperature range	-25°C...+50°C	-25°C...+50°C	-25°C...+55°C	-30°C...+60°C	-20°C...+50°C
	Lifetime up to	100,000 h	100,000 h	100,000 h	100,000 h	100,000 h
	Intelligent Temperature Guard	yes	yes	yes		yes
	Guarantee	5 years	5 years	5 years	5 years	5 years

DALI-2 LED driver **Rated voltage (200~240Vac)**

Linear Series (LCA) **DT6**

For area or linear luminaires



LCA 10-30W
243×30×21mm



LCA 30-50W
284×30×21mm



LCA 50-75W
360×30×21mm

At a glance:

Rated supply voltage: 200~240Vac

non-SELV + SELV

HVLED and LVLED output are more convenient to use

Adjustable light intensity

Dimmable built-in constant current LED driver

Adjustable output current via DALI

Dimming range 1 – 100%

For luminaire of protection class I and protection class II

Nominal life-time up to 100,000h

5-years guarantee

Dimming Interface

pD+: DALI + D4i

D+: DALI + Part 251-253

DA: DALI + Part 251



ledDATA



SELV



RoHS
COMPLIANT

IP24



Type	Output current (mA)	Output voltage range (V)	Output power (W)	Input voltage (Vac)	Built-in bus PSU 24V-AUX	Energy consumption data	Size (mm)
pD+: DALI + D4i + AUX DT6							
LCA 30W/200-700mA/15-54V pD+ Im	200-700	LV:15-27 / HV:27-54	30	200~240	yes	yes	243 × 30 × 21
LCA 50W/800-1200mA/15-54V pD+ Im	800-1200	LV:15-27 / HV:27-54	50	200~240	yes	yes	284 × 30 × 21
LCA 50W/350-1050mA/27-90V pD+ Im	350-1050	LV:27-51 / HV:51-90	50	200~240	yes	yes	284 × 30 × 21
LCA 50W/350-1050mA/42-132V pD+ Im	350-1050	LV:42-81 / HV:81-132	50	200~240	yes	yes	284 × 30 × 21
LCA 75W/1200-2100mA/15-54V pD+ Im	1200-2100	LV:15-27 / HV:27-54	75	200~240	yes	yes	360 × 30 × 21
LCA 75W/200-700mA/105-225V pD+ Im	200-700	LV:105-150 / HV:150-225	75	200~240	yes	yes	360 × 30 × 21
LCA 75W/200-700mA/135-285V pD+ Im	200-700	LV:135-195 / HV:195-285	75	200~240	yes	yes	360 × 30 × 21
D+: DALI + Part 251-253 DT6							
LCA 30W/200-700mA/15-54V D+ Im	200-700	LV:15-27 / HV:27-54	30	200~240	no	yes	243 × 30 × 21
LCA 50W/800-1200mA/15-54V D+ Im	800-1200	LV:15-27 / HV:27-54	50	200~240	no	yes	284 × 30 × 21
LCA 50W/350-1050mA/27-90V D+ Im	350-1050	LV:27-51 / HV:51-90	50	200~240	no	yes	284 × 30 × 21
LCA 50W/350-1050mA/42-132V D+ Im	350-1050	LV:42-81 / HV:81-132	50	200~240	no	yes	284 × 30 × 21
LCA 75W/1200-2100mA/15-54V D+ Im	1200-2100	LV:15-27 / HV:27-54	75	200~240	no	yes	360 × 30 × 21
LCA 75W/200-700mA/105-225V D+ Im	200-700	LV:105-150 / HV:150-225	75	200~240	no	yes	360 × 30 × 21
LCA 75W/200-700mA/135-285V D+ Im	200-700	LV:135-195 / HV:195-285	75	200~240	no	yes	360 × 30 × 21
DA: DALI + Part 251 DT6							
LCA 30W/200-700mA/15-54V DA Im	200-700	LV:15-27 / HV:27-54	30	200~240	no	no	243 × 30 × 21
LCA 50W/800-1200mA/15-54V DA Im	800-1200	LV:15-27 / HV:27-54	50	200~240	no	no	284 × 30 × 21
LCA 50W/350-1050mA/27-90V DA Im	350-1050	LV:27-51 / HV:51-90	50	200~240	no	no	284 × 30 × 21
LCA 50W/350-1050mA/42-132V DA Im	350-1050	LV:42-81 / HV:81-132	50	200~240	no	no	284 × 30 × 21
LCA 75W/1200-2100mA/15-54V DA Im	1200-2100	LV:15-27 / HV:27-54	75	200~240	no	no	360 × 30 × 21
LCA 75W/200-700mA/105-225V DA Im	200-700	LV:105-150 / HV:150-225	75	200~240	no	no	360 × 30 × 21
LCA 75W/200-700mA/135-285V DA Im	200-700	LV:135-195 / HV:195-285	75	200~240	no	no	360 × 30 × 21

DALI-2 LED driver **Universal voltage (100~277Vac)**

Linear Series (LCA) **DT6**

For area or linear luminaires



LCA 10-30W
243 × 30 × 21mm

LCA 30-50W
284 × 30 × 21mm

LCA 50-75W
355 × 30 × 21mm

At a glance:

Rate supply voltage: 100~277Vac

non-SELV + SELV

HVLED and LVLED output are more convenient to use

Adjustable light intensity

Dimmable Built-in constant current LED driver

Adjustable output current via DALI

Dimming range 1 – 100%

For luminaire of protection class I and protection class II

Nominal life-time up to 100,000h

5-years guarantee

Dimming Interface

pD+: DALI + D4i

D+: DALI + Part 251-253

DA: DALI + Part 251



class P

FC CAN ICES-5(B)/NMB-5(B)



ledDATA



SELV



IP24



Type	Output current (mA)	Output voltage range (V)	Output power (W)	Input voltage (Vac)	Built-in bus PSU 24V-AUX	Energy consumption data	Size (mm)
pD+: DALI + D4i + AUX DT6							
LCA 30W/200-700mA/15-54V pD+ UNV Im	200-700	LV:15-27 / HV:27-54	30	100~277	yes	yes	243 × 30 × 21
LCA 50W/800-1200mA/15-54V pD+ UNV Im	800-1200	LV:15-27 / HV:27-54	50	100~277	yes	yes	284 × 30 × 21
LCA 50W/350-1050mA/27-90V pD+ UNV Im	350-1050	LV:27-51 / HV:51-90	50	100~277	yes	yes	284 × 30 × 21
LCA 50W/350-1050mA/42-132V pD+ UNV Im	350-1050	LV:42-81 / HV:81-132	50	100~277	yes	yes	284 × 30 × 21
LCA 75W/1200-2100mA/15-54V pD+ UNV Im	1200-2100	LV:15-27 / HV:27-54	75	100~277	yes	yes	360 × 30 × 21
LCA 75W/200-700mA/105-225V pD+ UNV Im	200-700	LV:105-150 / HV:150-225	75	100~277	yes	yes	360 × 30 × 21
LCA 75W/200-700mA/135-285V pD+ UNV Im	200-700	LV:135-195 / HV:195-285	75	100~277	yes	yes	360 × 30 × 21
D+: DALI + Part 251-253 DT6							
LCA 30W/200-700mA/15-54V D+ UNV Im	200-700	LV:15-27 / HV:27-54	30	100~277	no	yes	243 × 30 × 21
LCA 50W/800-1200mA/15-54V D+ UNV Im	800-1200	LV:15-27 / HV:27-54	50	100~277	no	yes	284 × 30 × 21
LCA 50W/350-1050mA/27-90V D+ UNV Im	350-1050	LV:27-51 / HV:51-90	50	100~277	no	yes	284 × 30 × 21
LCA 50W/350-1050mA/42-132V D+ UNV Im	350-1050	LV:42-81 / HV:81-132	50	100~277	no	yes	284 × 30 × 21
LCA 75W/1200-2100mA/15-54V D+ UNV Im	1200-2100	LV:15-27 / HV:27-54	75	100~277	no	yes	360 × 30 × 21
LCA 75W/200-700mA/105-225V D+ UNV Im	200-700	LV:105-150 / HV:150-225	75	100~277	no	yes	360 × 30 × 21
LCA 75W/200-700mA/135-285V D+ UNV Im	200-700	LV:135-195 / HV:195-285	75	100~277	no	yes	360 × 30 × 21
DA: DALI + Part 251 DT6							
LCA 30W/200-700mA/15-54V DA UNV Im	200-700	LV:15-27 / HV:27-54	30	100~277	no	no	243 × 30 × 21
LCA 50W/800-1200mA/15-54V DA UNV Im	800-1200	LV:15-27 / HV:27-54	50	100~277	no	no	284 × 30 × 21
LCA 50W/350-1050mA/27-90V DA UNV Im	350-1050	LV:27-51 / HV:51-90	50	100~277	no	no	284 × 30 × 21
LCA 50W/350-1050mA/42-132V DA UNV Im	350-1050	LV:42-81 / HV:81-132	50	100~277	no	no	284 × 30 × 21
LCA 75W/1200-2100mA/15-54V DA UNV Im	1200-2100	LV:15-27 / HV:27-54	75	100~277	no	no	360 × 30 × 21
LCA 75W/200-700mA/105-225V DA UNV Im	200-700	LV:105-150 / HV:150-225	75	100~277	no	no	360 × 30 × 21
LCA 75W/200-700mA/135-285V DA UNV Im	200-700	LV:135-195 / HV:195-285	75	100~277	no	no	360 × 30 × 21

DALI-2 LED driver **Rated voltage (200~240Vac)**

Ceiling Series (LCE) **DT6**

For spotlight and downlight



At a glance:

Rated supply voltage: 200~240Vac

non-SELV + SELV

HVLED and LVLED output are more convenient to use

Adjustable light intensity

DIP switch adjusts output current

Dimmable Built-in constant current LED driver

Adjustable output current via DALI

Dimming range 1 – 100%

For luminaire of protection class II

Nominal life-time up to 100,000h

5-years guarantee

LCE 10-30W

87×60×27mm

LCE 30-50W

100×60×27mm

LCE 50-75W

119×70×32mm

Dimming Interface

pD+: DALI + D4i + AUX

D+: DALI + Part 251-253

pD: DALI + Part 250

DA: DALI + Part 251



Type	Output current (mA)	Output voltage range (V)	Output power (W)	Input voltage (Vac)	Built-in bus PSU 24V-AUX	Energy consumption data	Size (mm)
pD+: DALI + D4i + AUX DT6							
LCE 30W/200-700mA/15-54V pD+ sc	200-700	LV:15-27 / HV:27-54	30	200~240	yes	yes	100 × 60 × 27
LCE 50W/800-1200mA/15-54V pD+ sc	800-1200	LV:15-27 / HV:27-54	50	200~240	yes	yes	100 × 60 × 27
LCE 50W/350-1050mA/27-90V pD+ sc	350-1050	LV:27-51 / HV:51-90	50	200~240	yes	yes	100 × 60 × 27
LCA 50W/350-1050mA/42-132V pD+ sc	350-1050	LV:42-81 / HV:81-132	50	200~240	yes	yes	100 × 60 × 27
LCE 75W/1200-2100mA/15-54V pD+ sc	1200-2100	LV:15-27 / HV:27-54	75	200~240	yes	yes	119 × 70 × 32
LCE 75W/200-700mA/105-225V pD+ sc	200-700	LV:105-150 / HV:150-225	75	200~240	yes	yes	119 × 70 × 32
LCE 75W/200-700mA/135-285V pD+ sc	200-700	LV:135-195 / HV:195-285	75	200~240	yes	yes	119 × 70 × 32
D+: DALI + Part 251-253 DT6							
LCE 30W/200-700mA/15-54V D+ sc	200-700	LV:15-27 / HV:27-54	30	200~240	no	yes	100 × 60 × 27
LCE 50W/800-1200mA/15-54V D+ sc	800-1200	LV:15-27 / HV:27-54	50	200~240	no	yes	100 × 60 × 27
LCE 50W/350-1050mA/27-90V D+ sc	350-1050	LV:27-51 / HV:51-90	50	200~240	no	yes	100 × 60 × 27
LCE 50W/350-1050mA/42-132V D+ sc	350-1050	LV:42-81 / HV:81-132	50	200~240	no	yes	100 × 60 × 27
LCE 75W/1200-2100mA/15-54V D+ sc	1200-2100	LV:15-27 / HV:27-54	75	200~240	no	yes	119 × 70 × 32
LCE 75W/200-700mA/105-225V D+ sc	200-700	LV:105-150 / HV:150-225	75	200~240	no	yes	119 × 70 × 32
LCE 75W/200-700mA/135-285V D+ sc	200-700	LV:135-195 / HV:195-285	75	200~240	no	yes	119 × 70 × 32
DA: DALI + Part 251 DT6							
LCE 30W/200-700mA/15-54V DA sc	200-700	LV:15-27 / HV:27-54	30	200~240	no	no	100 × 60 × 27
LCE 50W/800-1200mA/15-54V DA sc	800-1200	LV:15-27 / HV:27-54	50	200~240	no	no	100 × 60 × 27
LCE 50W/350-1050mA/27-90V DA sc	350-1050	LV:27-51 / HV:51-90	50	200~240	no	no	100 × 60 × 27
LCE 50W/350-1050mA/42-132V DA sc	350-1050	LV:42-81 / HV:81-132	50	200~240	no	no	100 × 60 × 27
LCE 75W/1200-2100mA/15-54V DA sc	1200-2100	LV:15-27 / HV:27-54	75	200~240	no	no	119 × 70 × 32
LCE 75W/200-700mA/105-225V DA sc	200-700	LV:105-150 / HV:150-225	75	200~240	no	no	119 × 70 × 32
LCE 75W/200-700mA/135-285V DA sc	200-700	LV:135-195 / HV:195-285	75	200~240	no	no	119 × 70 × 32
pD: DALI + Part 250 DT6							
LCE 10W/100-500mA/15-51V pD sc	100-500	15-51	10	200~240	yes (Only PSU)	no	87 × 60 × 27
LCE 20W/250-700mA/15-51V pD sc	250-700	15-51	20	200~240	yes (Only PSU)	no	100 × 60 × 27
LCE 40W/540-1050mA/15-51V pD sc	540-1050	15-51	40	200~240	yes (Only PSU)	no	119 × 70 × 32

DALI-2 LED driver **Universal voltage (100~277Vac)**

Ceiling Series (LCE) DT6 / DT8

Dedicated to North American down lights



At a glance:

Rated supply voltage: 100~277Vac

SELV

Adjustable light intensity

DIP switch adjusts output current

Dimmable Built-in constant current LED driver

Adjustable output current via DALI / DIP Switch

Dimming range 0.1 – 100%

For luminaire of protection class II

Nominal life-time up to 100,000h

5-years guarantee

Dimming Interface

pD+: DALI + D4i + AUX

DA: DALI + Part 251

LCE 60W
181×85×34mm

LCE 30W
168×68×34mm



**CLASS2
CLASSP**



CAN ICES-5(B)/NMB-5(B)



ledDATA



SELV



IP24



Type	Output current (mA)	Output voltage range (V)	Output power (W)	Input voltage (Vac)	Built-in bus PSU 24V-AUX	Energy consumption data	Size (mm)
DA: DALI + Part 251 DT6							
LCE 30W/350-700mA/9-51V DA spm	350-700	9-51	30	100~277	no	no	168 × 68 × 34
LCE 60W/700-1250mA/9-51V DA spm	700-1250	9-51	60	100~277	no	no	181 × 85 × 34
pD+: DALI + D4i + AUX DT6							
LCE 30W/350-700mA/9-51V pD+ spm	350-700	9-51	30	100~277	yes	yes	168 × 68 × 34
LCE 60W/700-1250mA/9-51V pD+ spm	700-1250	9-51	60	100~277	yes	yes	181 × 85 × 34
DA: DALI + Part 251 DT8							
LCE 30W/350-700mA/9-51V TW DA spm	350-700	9-51	30	100~277	no	no	168 × 68 × 34
LCE 60W/700-1250mA/9-51V TW DA spm	700-1250	9-51	60	100~277	no	no	181 × 85 × 34
pD+: DALI + D4i + AUX DT8							
LCE 30W/350-700mA/9-51V TW pD+ spm	350-700	9-51	30	100~277	yes	yes	168 × 68 × 34
LCE 60W/700-1250mA/9-51V TW pD+ spm	700-1250	9-51	60	100~277	yes	yes	181 × 85 × 34

DALI-2 LED driver

Linear and Ceiling Series (LCA/LCE) **DT6 / DT8**

For spotlight and downlight



LCA 50W

218×19×17.8mm
DC48V Input

DT8

At a glance:

SELV

Adjustable light intensity

Dimmable Built-in constant current LED driver

Adjustable output current via DALI and UART

Dimming range 1 – 100%

For luminaire of protection class II

Nominal life-time up to 100,000h

5-years guarantee

Dimming Interface

pD+: DALI + D4i + AUX

pD: DALI + Part 250

DA: DALI + Part 251



LCE 12W

131×30×20mm

DT8



LCE 10W

100×30×30mm

DT6



ledDATA



SELV



RoHS COMPLIANT

IP24



Type	Output current (mA)	Output voltage range (V)	Output power (W)	Input voltage	Built-in bus PSU	Energy consumption data	Size (mm)
pD+: DALI + D4i DT8							
LCA 21W/100-600mA/15-36V pD+ TW lp	100-600	15-36	21	48Vdc	yes	yes	218 × 19 × 17.8
LCA 50W/600-1400mA/15-36V pD+ TW lp	600-1400	15-36	50	48Vdc	yes	yes	218 × 19 × 17.8
DA: DALI + Part 251 DT8							
LCE 12W/100-500mA/15-51V DA TW sc	100-500	15-51	12	200~240Vac	no	no	131 × 30 × 20
pD: DALI + Part 250 DT6							
LCE 10W/100-500mA/15-51V pD sc	100-500	15-51	10	200~240Vac	yes	no	100 × 30 × 30

DALI-2 LED driver

Outdoor High Power Series(LCH)

For streetlight

Universal voltage (100~240Vac)

DT6

IP67

At a glance:

Rated supply voltage: 100~240Vac

non-SELV + SELV

Adjustable light intensity

Dimmable Built-in constant current LED driver

Dimming range 1 – 100%

For luminaire of protection class I and protection class II

Nominal life-time up to 100,000h

5-years guarantee

Dimming Interface

DA: DALI + Part 251



LCH 75W

158×61×38mm

LCH 100W

181×61×38mm

LCH 150W

200×61×38mm

LCH 200W

246×61×38mm



ledDATA



IP67



Type	Output current (mA)	Output voltage range (V)	Output power (W)	Input voltage (Vac)	Built-in bus PSU 24V-AUX	Energy consumption data	Size (mm)
DA: DALI + Part 251 DT6							
LCH 75W/500mA/45-150V DA al	500	45-150	75	100~240	no	no	158 × 61 × 38
LCH 75W/700mA/32-108V DA al	700	32-108	75	100~240	no	no	158 × 61 × 38
LCH 75W/1050mA/22-72V DA al	1050	22-72	75	100~240	no	no	158 × 61 × 38
LCH 75W/1400mA/16-54V DA al	1400	16-54	75	100~240	no	no	158 × 61 × 38
LCH 100W/500mA/100-200V DA al	500	100-200	100	100~240	no	no	181 × 61 × 38
LCH 100W/700mA/71-143V DA al	700	71-143	100	100~240	no	no	181 × 61 × 38
LCH 100W/1050mA/47-95V DA al	1050	47-95	100	100~240	no	no	181 × 61 × 38
LCH 100W/1400mA/36-72V DA al	1400	36-72	100	100~240	no	no	181 × 61 × 38
LCH 150W/500mA/150-300V DA al	500	150-300	150	100~240	no	no	200 × 61 × 38
LCH 150W/700mA/107-214V DA al	700	107-214	150	100~240	no	no	200 × 61 × 38
LCH 150W/1050mA/71-142V DA al	1050	71-142	150	100~240	no	no	200 × 61 × 38
LCH 150W/1400mA/54-107V DA al	1400	54-107	150	100~240	no	no	200 × 61 × 38
LCH 200W/500mA/200-400V DA al	500	200-400	200	100~240	no	no	246 × 61 × 38
LCH 200W/700mA/142-285V DA al	700	142-285	200	100~240	no	no	246 × 61 × 38
LCH 200W/1050mA/95-190V DA al	1050	95-190	200	100~240	no	no	246 × 61 × 38
LCH 200W/1400mA/71-142V DA al	1400	71-142	200	100~240	no	no	246 × 61 × 38

DALI-2 LED driver

Rated voltage (200~240Vac)

Constant voltage Series (LCV) **DT6 / DT8**

For LED strip light

- At a glance:
- Rated supply voltage: 200~240Vac
 - SELV
 - PWM output frequency: 10KHz
 - Dimmable built-in constant voltage LED driver
 - Dimming range 1 – 100%
 - For luminaire of protection class II
 - Nominal life-time up to 100,000h
 - 5-years guarantee

Dimming Interface
DA: DALI + Part 251



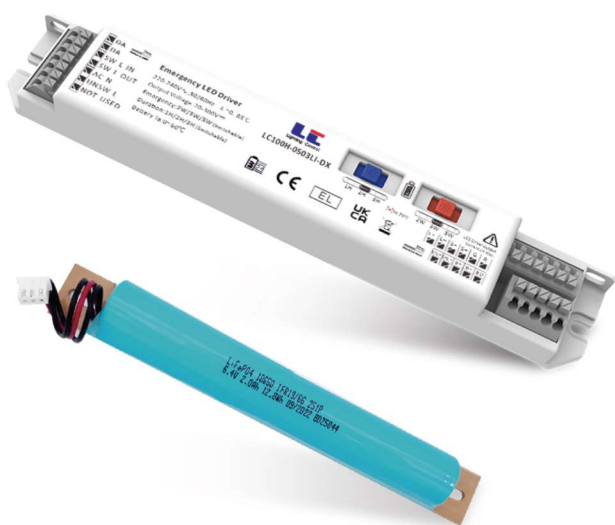
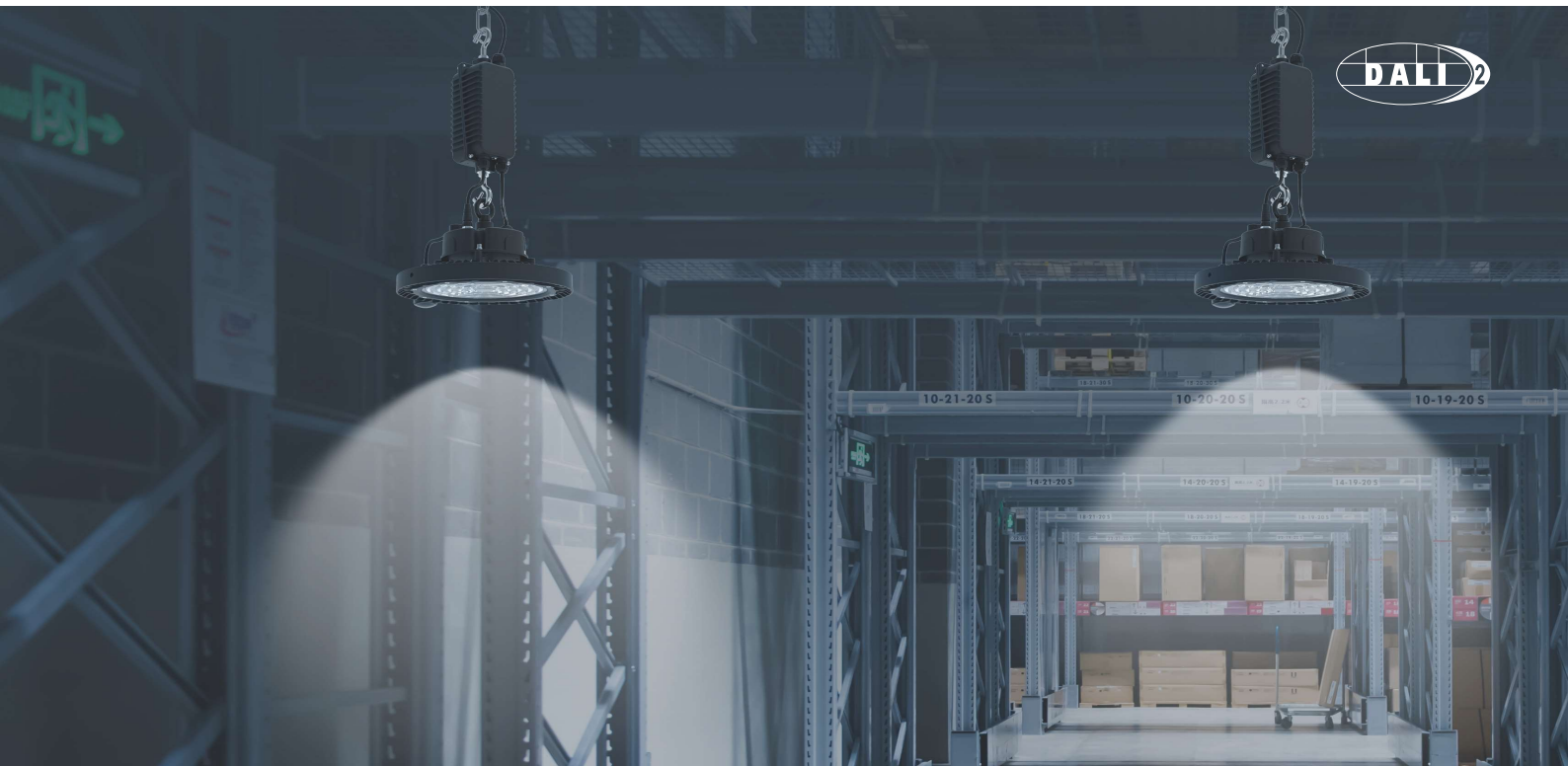
LCE 18-35W
152×39.5×30mm

LCE 50-100W
188×40×30mm

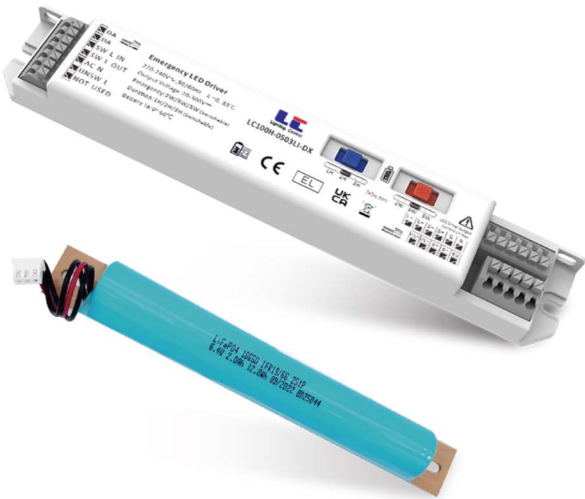


Type	Output current (mA)	Output voltage (V)	Output power (W)	Input voltage (Vac)	Built-in bus PSU 24V-AUX	Energy consumption data	Size (mm)
DA: DALI + Part 251 DT6							
LCV 18W/750mA/24V DA CV sc	750	24	18	200~240	no	no	152 × 39.5 × 30
LCV 35W/1450mA/24V DA CV sc	1450	24	35	200~240	no	no	152 × 39.5 × 30
LCV 50W/2100mA/24V DA CV sc	2100	24	50	200~240	no	no	188 × 40 × 30
LCV 100W/4160mA/24V DA CV sc	4160	24	100	200~240	no	no	188 × 40 × 30
DA: DALI + Part 251 DT8							
LCV 18W/750mA/24V DA TW CV sc	750	24	18	200~240	no	no	152 × 39.5 × 30
LCV 35W/1450mA/24V DA TW CV sc	1450	24	35	200~240	no	no	152 × 39.5 × 30
LCV 50W/2100mA/24V DA TW CV sc	2100	24	50	200~240	no	no	188 × 40 × 30
LCV 100W/4160mA/24V DA TW CV sc	4160	24	100	200~240	no	no	188 × 40 × 30

Emergency Power Unit series (EPU)



Built-in DALI-2 emergency power supply



Features

- Constant power output, max. 5W
- Work with LED modules of wide rated voltage 20-300VDC
- Two options of emergency power: 3W / 5W
- Extra high surge protection, 2KV
- Integrated functions of Manual Testing, Auto Testing (or Self Testing), DALI
- Automatically starts to work when normal power fails
- Three options of emergency illumination time, up to 3 hours
- LiFePO4 battery charge and discharge technologies: over-charge and over-current protection, short-circuit and deep discharge protection
- CE and UKCA certification
- LiFePO4 battery pack with 5 years warranty
- IP24 Protection Rating
- DALI-2 version is available upon request



Model List

Test Mode	Model No.	Input Voltage	Power	Output Voltage	Charge Time	Emergency Time	Battery Pack
DALI-2	LC100H-0301LI-DX	220-240VAC	3W	20-300V	24H	1Hours	LiFePO4 6.4V 1.5Ah
	LC100H-0302LI-DX	220-240VAC	3W	20-300V	24H	2Hours	LiFePO4 6.4V 1.5Ah
	LC100H-0303LI-DX	220-240VAC	3W	20-300V	24H	3Hours	LiFePO4 6.4V 3.0Ah
	LC100H-0501LI-DX	220-240VAC	5W	20-300V	24H	1Hours	LiFePO4 6.4V 1.5Ah
	LC100H-0502LI-DX	220-240VAC	5W	20-300V	24H	2Hours	LiFePO4 6.4V 4.0Ah
	LC100H-0503LI-DX	220-240VAC	5W	20-300V	24H	3Hours	LiFePO4 6.4V 4.0Ah

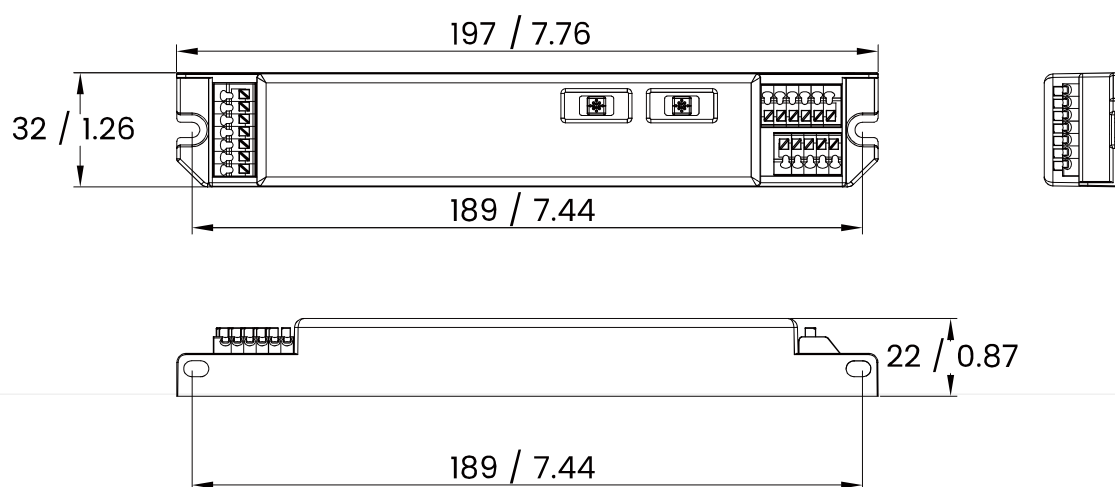
Specifications

LC100H-0303LI-DX

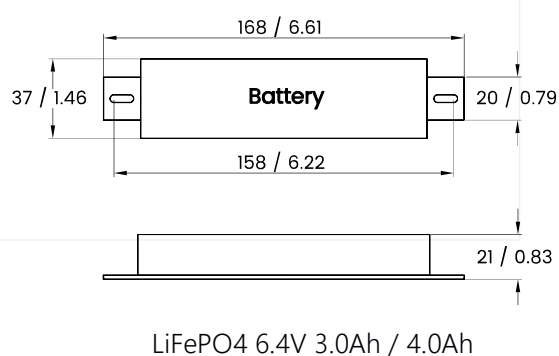
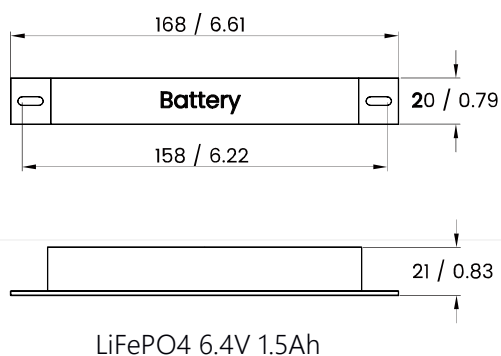
LC100H-0503LI-DX

Output Power	3W	5W
Discharge Duration	3H	3H
Input Voltage	220-240VAC, 50/60Hz	220-240VAC, 50/60Hz
Input Current	30mA Max.	30mA Max.
Power factor	≥0.8	≥0.8
Output Voltage	20-300V	20-300V
Output Current	10-150mA	17-250mA
Battery	LiFePO4 6.4V 3.0Ah	LiFePO4 6.4V 4.0Ah
Charge Time	24H	24H
Test Mode	DALI-2	DALI-2
IP Rating	IP24	IP24
Ambient Temperature	0°C-55°C	0°C-55°C

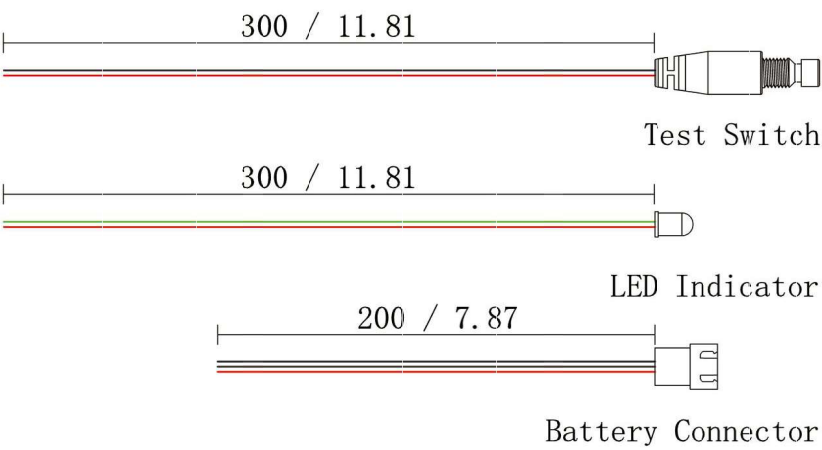
Dimensions (Unit: mm / inch)



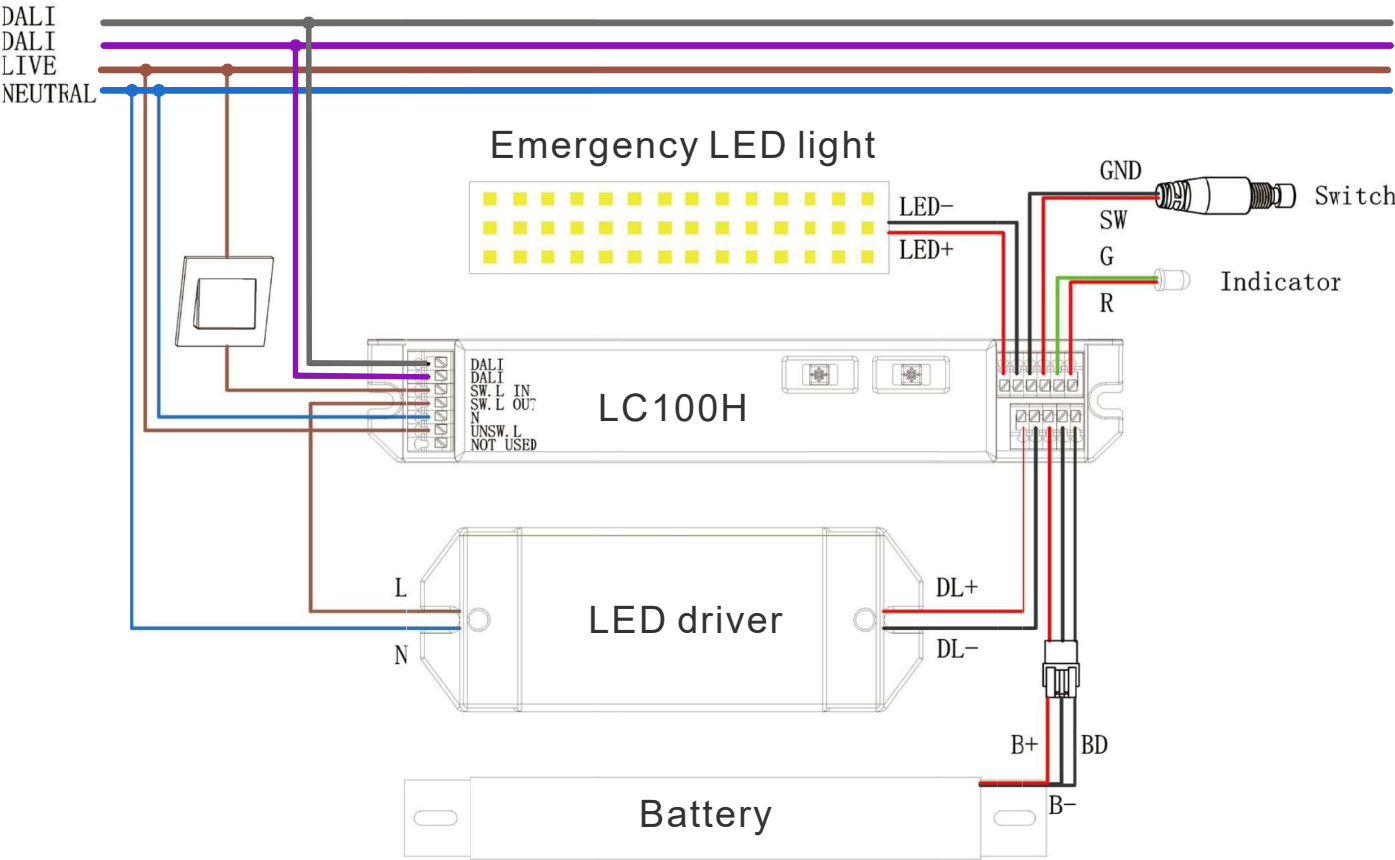
Battery Pack



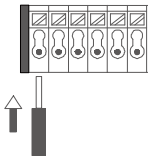
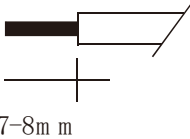
Wire dimensions (Unit: mm / inch)



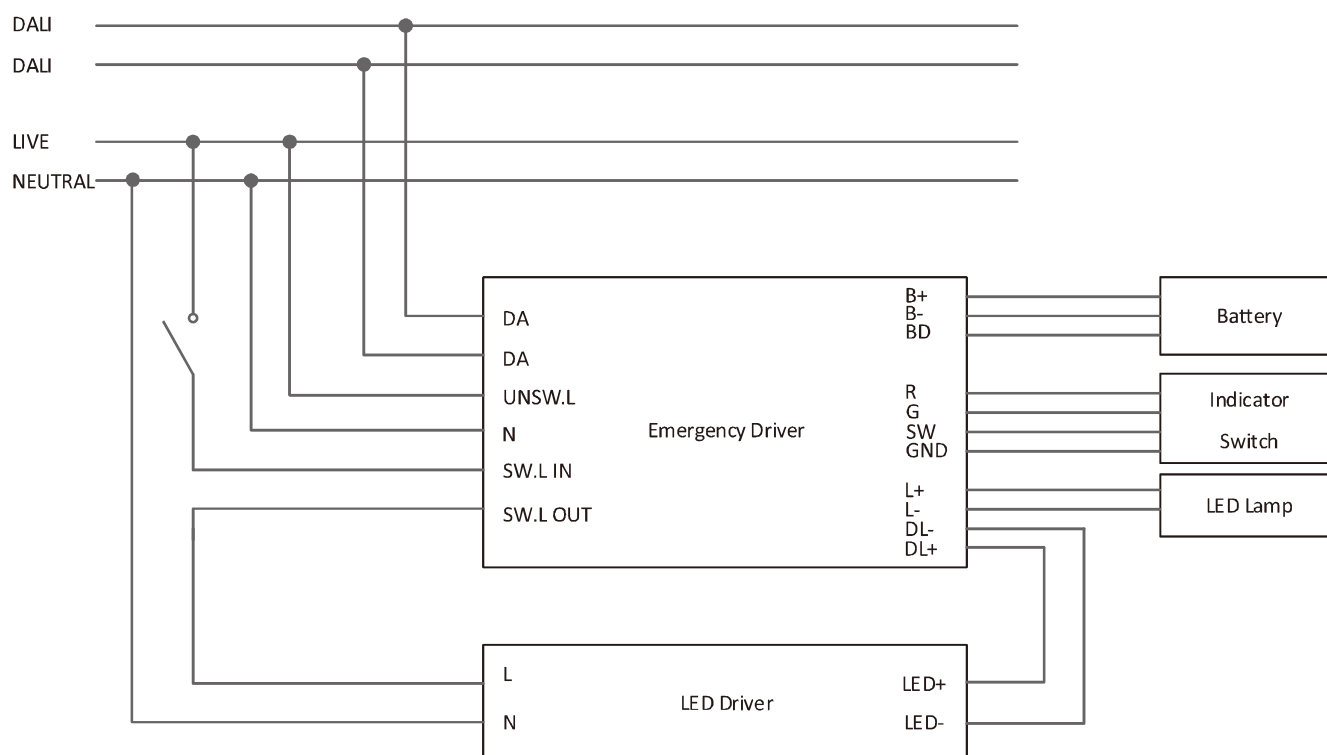
Wiring diagram with LED loads



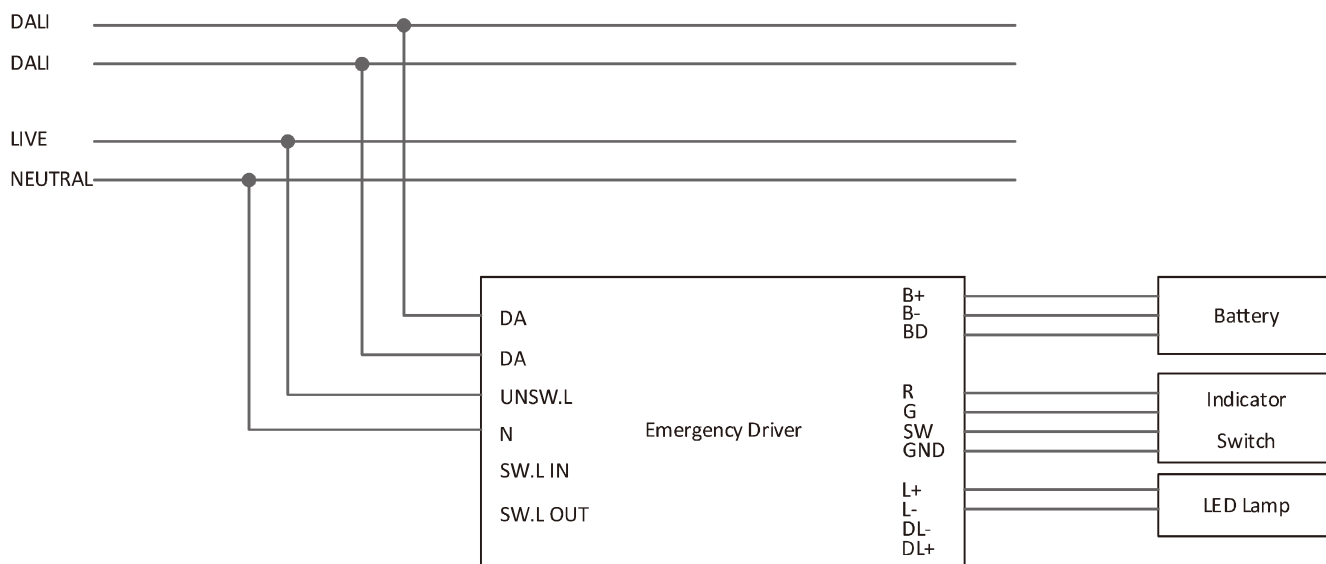
wire preparation
0.5-1.5mm²



Application line diagram



Maintained



Non-Maintained

High power DALI-2 LED emergency power supply



Features

- Constant power output, max 30W.
- Work with LED modules of wide rated voltage 30-250VDC
- Three options of max. output voltage: 60V / 150V / 250V
- Three options of emergency power: 15W / 20W / 30W
- Extra high surge protection, 2KV
- Integrated functions of Manual Testing, Auto Testing (or Self Testing), DALI
- Automatically starts to work when normal power fails
- Three options of emergency illumination time, up to 3 hours
- LiFePO4 battery charge and discharge technologies: over-charge and over current protection, short-circuit and deep discharge protection
- CE and UKCA certification
- LiFePO4 battery pack with 5 years warranty
- IP65 Protection Rating
- Wireless remote control for emergency testing
- DALI-2 version is available upon request



YEARS
WARRANTY

Model List

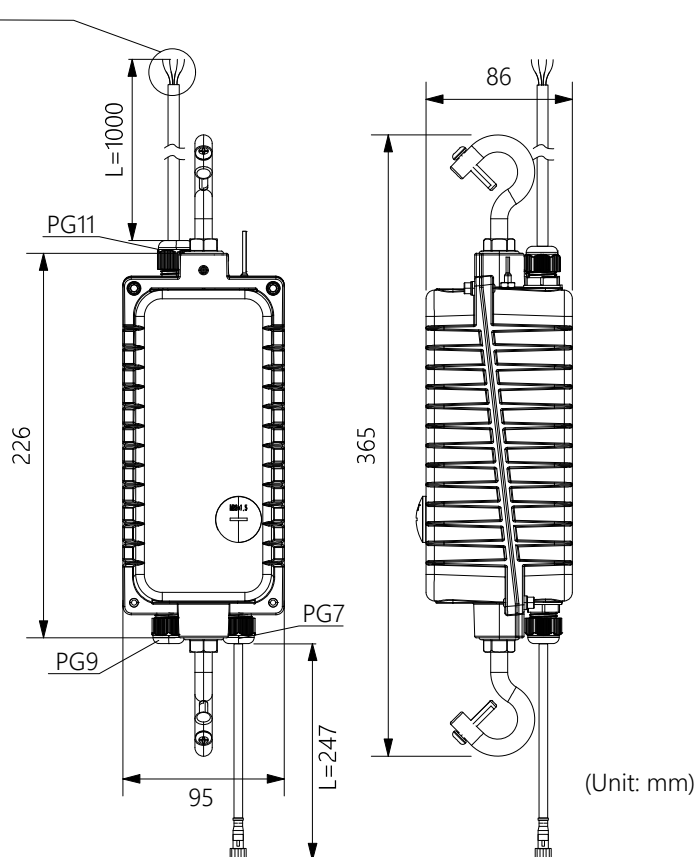
Test Mode	Model No.	Input Voltage	Power	Output Voltage	Charge Time	Emergency Time	Battery Pack
DALI-2	LC120H-1503LI-DA	100-277Vac	15W	30-60V	24H	3Hours	LiFePO4 6.4V 1.5Ah
	LC120H-1503LI-DB	100-277Vac	15W	60-150V	24H	3Hours	LiFePO4 6.4V 1.5Ah
	LC120H-1503LI-DC	100-277Vac	15W	150-250V	24H	3Hours	LiFePO4 6.4V 1.5Ah
	LC120H-2002LI-DA	100-277Vac	20W	30-60V	24H	2Hours	LiFePO4 6.4V 1.5Ah
	LC120H-2002LI-DB	100-277Vac	20W	60-150V	24H	2Hours	LiFePO4 6.4V 1.5Ah
	LC120H-2002LI-DC	100-277Vac	20W	150-250V	24H	2Hours	LiFePO4 6.4V 3.0Ah
	LC120H-3015LI-DA	100-277Vac	30W	30-60V	24H	90Mins	LiFePO4 6.4V 1.5Ah
	LC120H-3015LI-DB	100-277Vac	30W	60-150V	24H	90Mins	LiFePO4 6.4V 4.0Ah
	LC120H-3015LI-DC	100-277Vac	30W	150-250V	24H	90Mins	LiFePO4 6.4V 4.0Ah

Specifications

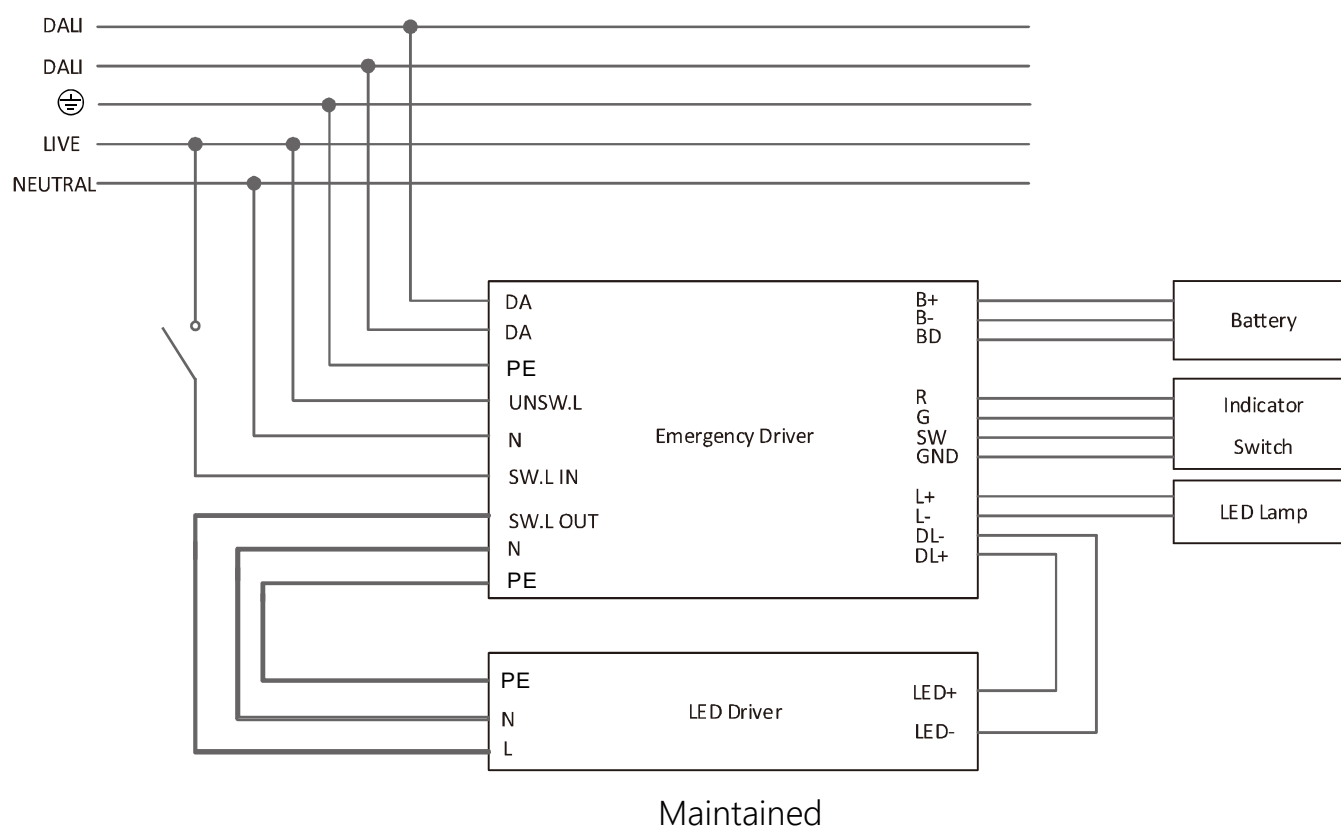
	LC120H-1503LI-DX	LC120H-2002LI-DX	LC120H-3015LI-DX
Output Power	15W	20W	30W
Discharge Duration	3Hours	2 Hours	90Mins
Input Voltage	100~277Vac, 50/60Hz	100~277Vac, 50/60Hz	100~277Vac, 50/60Hz
Input Current	220mA Max.	220mA Max.	220mA Max.
Power factor	≥0.6	≥0.6	≥0.6
Output Voltage	30-60V	30-60V	30-60V
	60-150V	60-150V	60-150V
	150-250V	150-250V	150-250V
Output Current	250-500mA	330-670mA	500-1000mA
	100-250mA	130-330mA	200-500mA
	60-100mA	80-130mA	120-200mA
Battery	LiFePO4 12.8V 3Ah	LiFePO4 12.8V 4Ah	LiFePO4 12.8V 6Ah
Charge Time	24H	24H	24H
Test Mode	DALI-2	DALI-2	DALI-2
IP Rating	IP65	IP65	IP65
Ambient Temperature	0°C~45°C	0°C~45°C	0°C~45°C

Dimensions (Unit: mm)

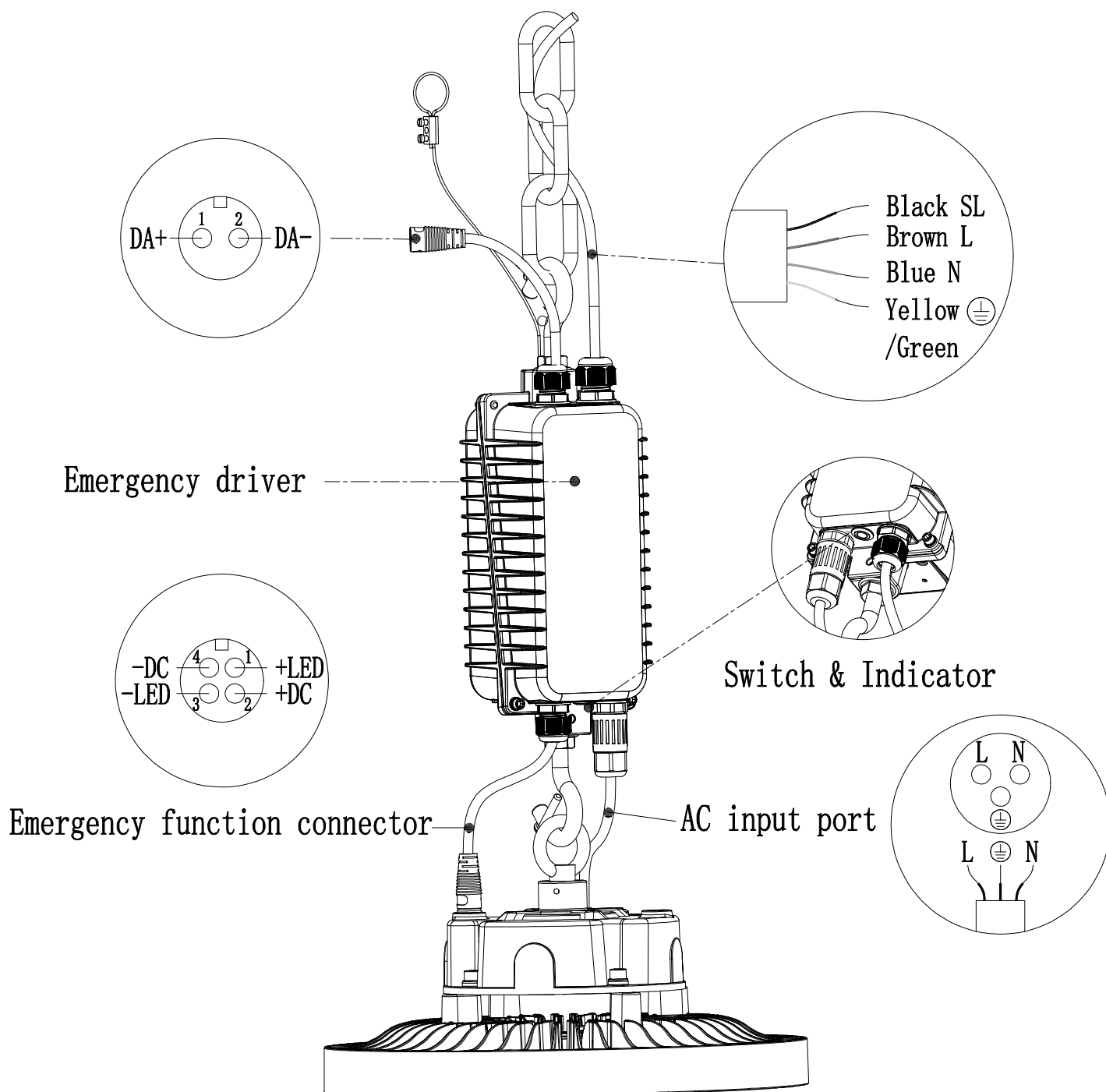
Colour	Definition
Brown	AC Line
Black	AC Line Switch
Blue	AC Neutral
Yellow/Green	PE



Application line diagram



Wiring diagram





UL STD.924

EMERGENCY LIGHTING Relays for Automatic Signal / Load Control Applications ESR series





UL STD.924 Emergency Lighting Automatic Signal / Load Control Relays are designed for applications that require an emergency load to be switched on during a loss of normal power.

These cost-efficient relays are available enclosed in three form factors.

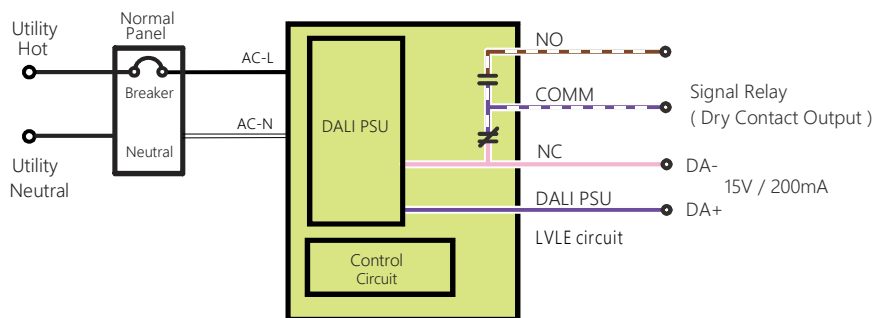
Emergency relay is a type of controller used in high-voltage emergency systems, with built-in load relay, signal relay and DALI bus PSU. It can be wired according to different needs to achieve a variety of functions.

Load Control Relay provides 16 Amp SPDT and dry contact interface, which can switch on / off emergency loads of rated voltage at 100-347Vac or 200-300Vdc.

Signal Control Relay provides 1 Amp SPDT and dry contact interface, which can override the dimming function of 0-10Vdc or DALI dimmer.

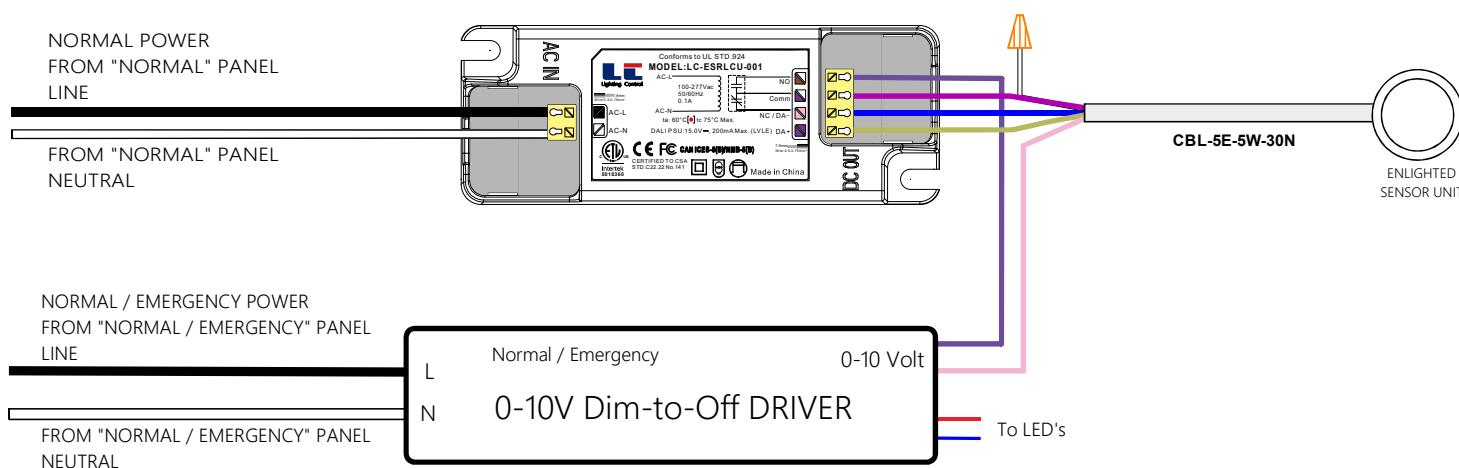
Product name	Model	Operating voltage	Load relay control current	Wall switch function	Signal relay	Built-in DALI bus PSU	Working indicator	Protection Rating	Housing
ESR	LC-ESRLCU-001	100-277Vac		yes	yes	55mA/200mA (DIP switch)		IP24	fixture mount
	LC-ESRLCU-011	100-277Vac		yes	yes	55mA/200mA (DIP switch)	yes	IP24	fixture mount
	LC-ESRLCU-003	100-277Vac	6A / 1150VA	yes	yes	55mA/200mA (Jumper)		IP24	fixture mount
	LC-ESRLCU-013	100-277Vac	6A / 1150VA	yes	yes	55mA/200mA (Jumper)	yes	IP24	fixture mount
	LC-ESRLCU-107	100-277Vac		yes	yes	55mA/200mA (Option)		IP65	nipple mount
	LC-ESRLCU-117	100-277Vac		yes	yes	55mA/200mA (Option)	yes	IP65	nipple mount
	LC-ESRLCU-207	100-277Vac	8A / 1385VA	yes	yes	55mA/200mA (Option)		IP65	nipple mount
	LC-ESRLCU-217	100-277Vac	8A / 1385VA	yes	yes	55mA/200mA (Option)	yes	IP65	nipple mount

Schematic diagram

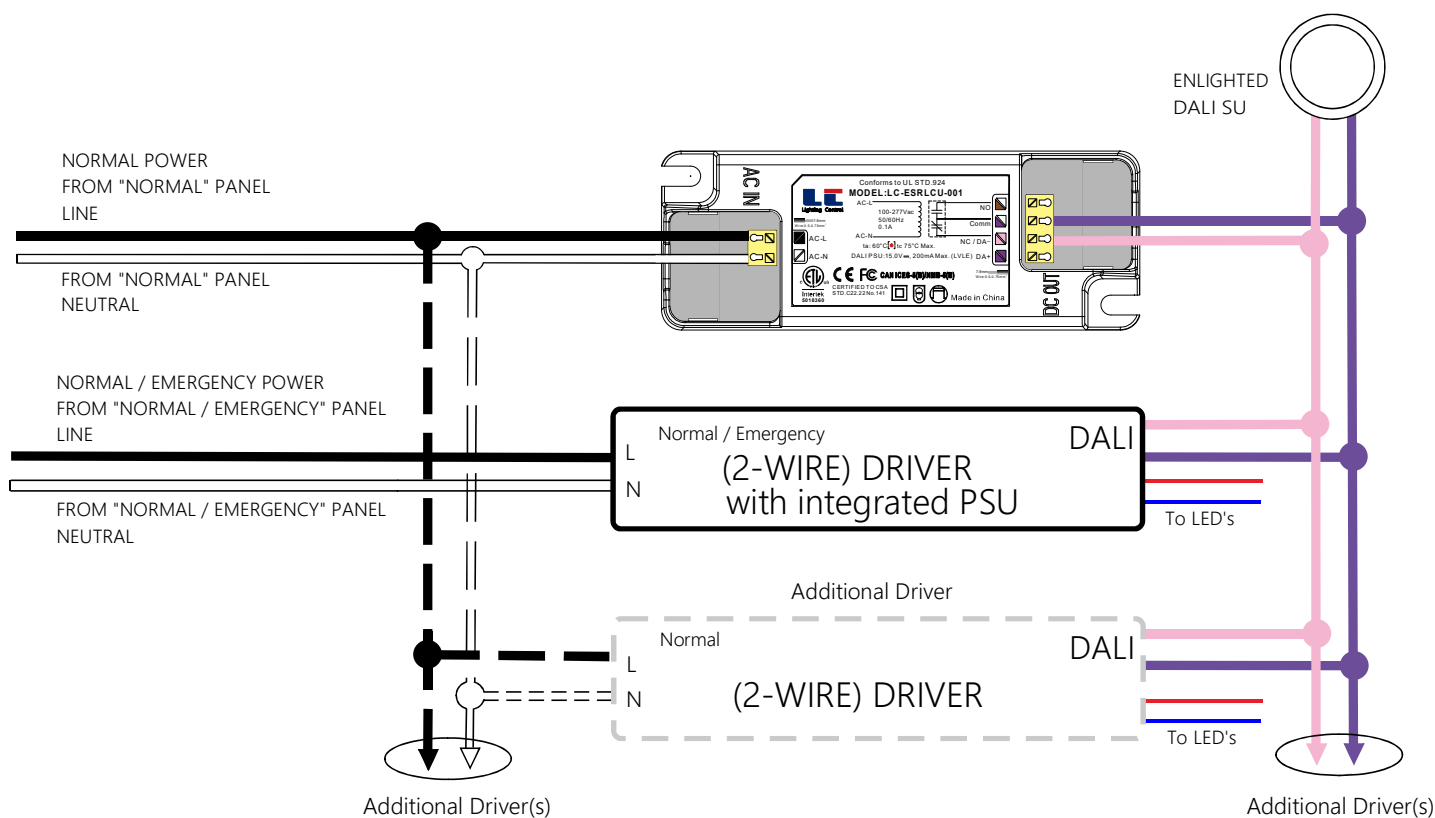


LC-ESRLCU-001
LC-ESRLCU-011
LC-ESRLCU-107
LC-ESRLCU-207

LINE DIAGRAM - Normal / Emergency - 0-10V Dim-to-Off Driver - w/ Relay CU - w/ SU-5 Sensors (0-10V Dimming)



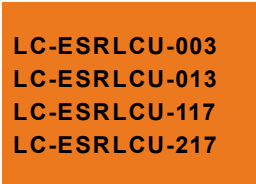
LINE DIAGRAM - Normal / Emergency - (2-wire) Driver (integrated PSU) - w/ Relay CU - w/ (2-wire) SU



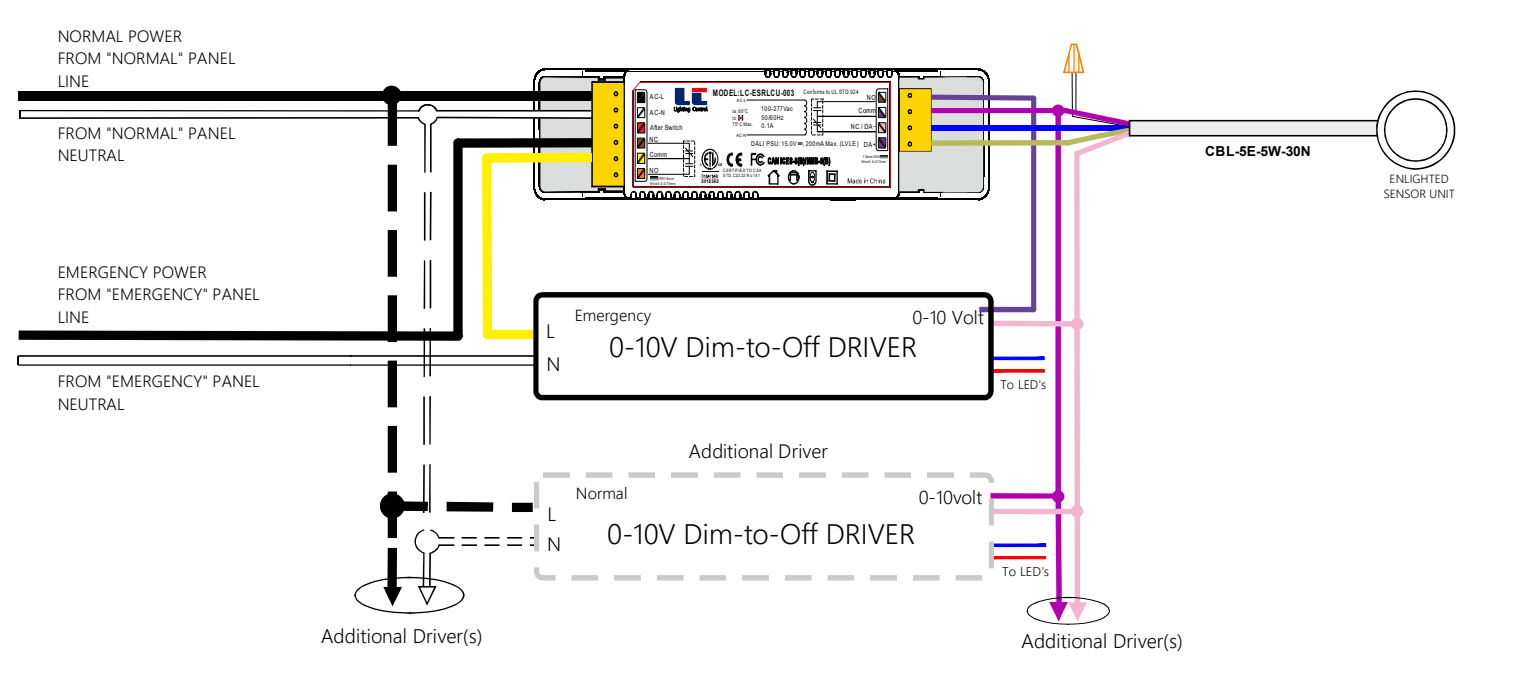
ESR

43

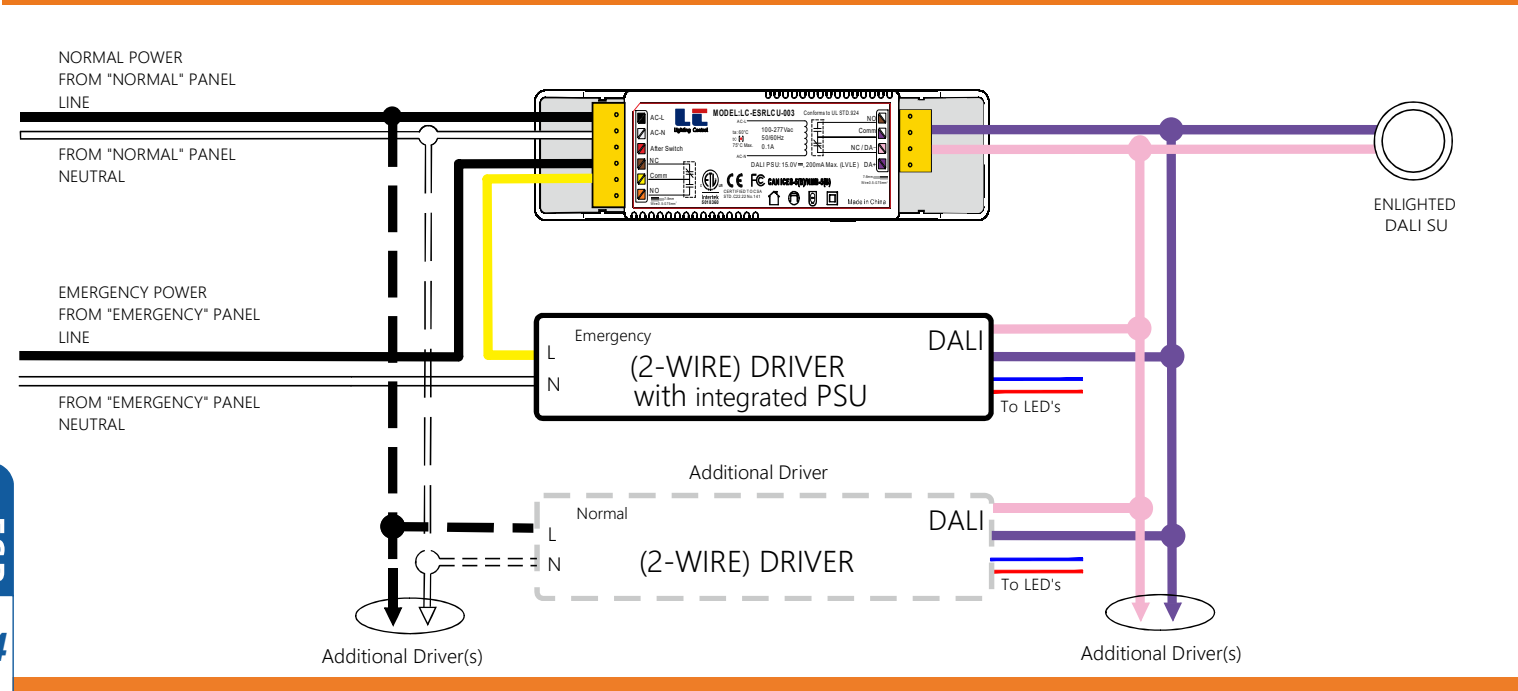
Schematic diagram



LINE DIAGRAM - Normal / Emergency - 0-10V Dim-to-Off Driver - w/ Relay CU - w/ SU-5 Sensors (0-10V Dimming)



LINE DIAGRAM - Normal / Emergency - (2-wire) Driver (integrated PSU) - w/ Relay CU - w/ (2-wire) SU



ESR series



Features

- Emergency lighting signal control relay
- Conforms to UL STD.924
- Operating voltage: 100Vac to 277Vac / 140Vdc to 390Vdc
- Operating temperature: -20°C to +60°C
- Built-in DALI bus PSU, 15V / 200mA
- One (1) SPDT continuous duty Coil
- 1 million cycles minimum mechanical lifetime
- Operate time: 3mS
- Maximum switching signal voltage: 250Vac / 30Vdc
- Maximum switching signal current: 1A

Advantages

- Built-in DALI bus PSU for powering sensor, wireless device etc.
- Large operating window for maximum compatibility
- Multiple combined functions adapt to various emergency management
- Can be used for a variety of lighting fixture and troffers
- DALI bus PSU output current setting at 55mA or 200mA via DIP switch

Initial Wiring Verification

1. Turn OFF Normal Power, Transfer Power.
2. Wire relay according to line diagram.
3. Energize Transfer Power. Emergency Light should illuminate.
4. Energize Normal Power. Emergency Light will turn OFF.

Field Inspection

1. Ensure Normal Power and Transfer Power are energized.
2. Turn OFF Normal Power. Emergency Light will illuminate.



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STD.924

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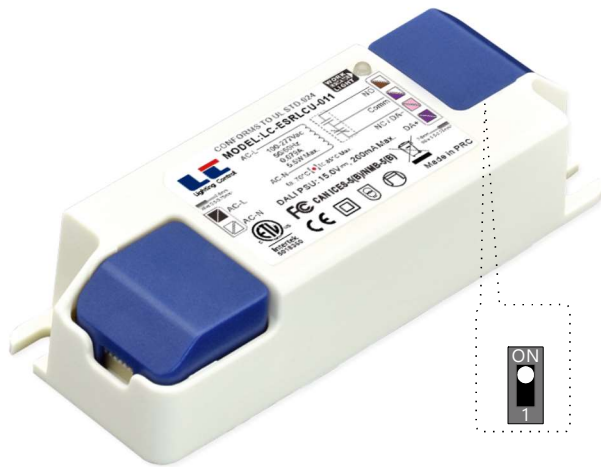


CAN ICES-5(B)/NMB-5(B)



Model Number	LC-ESRLCU-001
Full Product Name	Automatic signal control relay
Line Voltage	100 ~ 277Vac / 140 ~ 390Vdc
Line Current	0.1A Max.
Line Frequency	50 / 60Hz
Min. Mains Voltage Operational	90Vac
Max. Mains Voltage Operational	300Vac
DALI Output Voltage Typ.	15Vdc
DALI Guaranteed Output Current	55mA / 200mA (DIP switch setting)
Protections	Short circuit protection of DA+ / DA-
Protection Rating	IP24
Ambient Temp. Range	-20°C to +60°C
Dimensions	96×36×22mm

ESR series



Features

- Emergency lighting signal control relay
- Conforms to UL STD.924
- Operating voltage: 100Vac to 277Vac / 140Vdc to 390Vdc
- Operating temperature: -20°C to +60°C
- Built-in DALI bus PSU, 15V / 200mA
- One (1) SPDT continuous duty coil
- 1 million cycles minimum mechanical lifetime
- Operate time: 3mS
- Maximum switching signal voltage: 250Vac / 30Vdc
- Maximum switching signal current: 1A
- Additional green LED indicates working status

Advantages

- Built-in DALI bus PSU for powering sensor, wireless device etc.
- Large operating window for maximum compatibility
- Multiple combined functions adapt to various emergency management
- Can be used for a variety of lighting fixture and troffers
- DALI bus PSU output current setting at 55mA or 200mA via DIP switch

Initial Wiring Verification

1. Turn OFF Normal Power, Transfer Power.
2. Wire relay according to line diagram.
3. Energize Transfer Power. Emergency Lights should illuminate.
4. Energize Normal Power. Emergency Lights will turn OFF.

Field Inspection

1. Ensure Normal Power and Transfer Power are energized.
2. Turn OFF Normal Power. Emergency Light will illuminate.



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STD.924

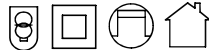
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STD.C22.22 No.141

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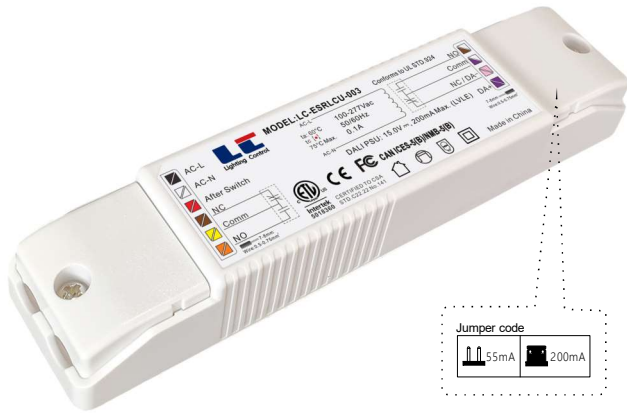


CAN ICES-5(B)/NMB-5(B)



Model Number	LC-ESRLCU-011
Full Product Name	Automatic signal control relay
Line Voltage	100 ~ 277Vac / 140 ~ 390Vdc
Line Current	0.1A Max.
Line Frequency	50 / 60Hz
Min. Mains Voltage Operational	90Vac
Max. Mains Voltage Operational	300Vac
DALI Output Voltage Typ.	15Vdc
DALI Guaranteed Output Current	55mA / 200mA (DIP switch setting)
Protections	Short circuit protection of DA+ / DA-
Protection Rating	IP24
Ambient Temp. Range	-20°C to +60°C
Dimensions	96×36×22mm

ESR series



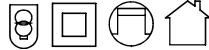
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RoHS COMPLIANT IP24



CAN ICES-5(B)/NMB-5(B)



Features

- Emergency lighting signal / load control relays
- Conforms to UL STD.924
- Operating voltage: 100Vac to 277Vac / 140Vdc to 390Vdc
- Operating temperature: -20°C to +60°C
- Built-in DALI bus PSU, 15V / 200mA
- Two(2) SPDT continuous duty coil: signal relay and load relay
- 1 million cycles minimum mechanical lifetime
- Load relay operate time: 15mS
- Maximum switching load voltage: 347Vac / 300Vdc
- Maximum switching load current: 6A Max. @120Vac
- Maximum switching load power: 1150VA Max.
- Signal relay operate time: 3mS
- Maximum switching signal voltage: 250Vac / 30Vdc
- Maximum switching signal current: 1A

Advantages

- Control input on "After Switch" detects wall switch's on and off state, allowing emergency light to be used as normal light
- Built-in DALI bus PSU for powering sensor, wireless device etc.
- Large operating window for maximum compatibility
- Multiple combined functions adapt to various emergency management
- Can be used for a variety of lighting fixture and troffers
- DALI bus PSU output current setting at 55mA or 200mA via jumper

Initial Wiring Verification

1. Turn OFF Normal Power, Transfer Power and Wall Switch.
2. Wire relays according to line diagram.
3. Energize Transfer Power. Emergency Light should illuminate.
4. Energize Normal Power. Emergency Light will turn OFF.
5. Turn ON Wall Switch. Emergency Light should illuminate.

Field Inspection

1. Ensure Normal Power and Transfer Power are energized.
2. Turn OFF Wall Switch. Emergency Light will turn OFF.
3. Turn OFF Normal Power. Emergency Light will illuminate.

Model Number	LC-ESRLCU-003
Full Product Name	Automatic load control relay
Line Voltage	100 ~ 277Vac / 140 ~ 390Vdc
Line Current	0.1A Max. (AC out power is not included)
Line Frequency	50 / 60Hz
Min. Mains Voltage Operational	90Vac
Max. Mains Voltage Operational	300Vac
Load relay control current	6A@120Vac, 5A@230Vac, 4A@277Vac, 3A@347Vac, 4A@200Vdc, 3A@300Vdc
DALI Output Voltage Typ.	15Vdc
DALI Guaranteed Output Current	55mA / 200mA (Jumper)
Protections	Short circuit protection of DA+ / DA-
Protection Rating	IP24
Ambient Temp. Range	-20°C to +60°C
Dimensions	130×30×20mm

ESR series



Features

- Emergency lighting signal / load control relays
- Conforms to UL STD.924
- Operating voltage: 100Vac to 277Vac / 140Vdc to 390Vdc
- Operating temperature: -20°C to +60°C
- Built-in DALI bus PSU, 15V / 200mA
- Two (2) SPDT continuous duty coil: signal relay and load relay
- 1 million cycles minimum mechanical lifetime
- Operate time: 15ms
- Maximum switching load voltage: 347Vac / 300Vdc
- Maximum switching load current: 6A Max. @120Vac
- Maximum switching load power: 1150VA Max.
- Additional local test button for manual testing function
- Additional green LED indicates working status
- Signal relay operate time: 3ms
- Maximum switching signal voltage: 250Vac / 30Vdc
- Maximum switching signal current: 1A

Advantages

- Control input on "After Switch" detects wall switch's on and off state, allowing emergency light to be used as normal light
- Built-in DALI bus PSU for powering sensor, wireless device etc.
- Large operating window for maximum compatibility
- Multiple combined functions adapt to various emergency management
- Can be used for a variety of lighting fixture and troffers
- DALI bus PSU output current setting at 55mA or 200mA via jumper

Initial Wiring Verification

1. Turn OFF Normal Power, Transfer Power and Wall Switch.
2. Wire relay according to line diagram.
3. Energize Transfer Power. Emergency Light should illuminate.
4. Energize Normal Power. Emergency Light will turn OFF.
5. Turn ON Wall Switch. Emergency Light should illuminate.

Field Inspection

1. Ensure Normal Power and Transfer Power are energized.
2. Turn OFF Wall Switch. Emergency Light will turn OFF.
3. Turn OFF Normal Power. Emergency Light will illuminate.



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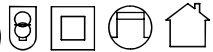
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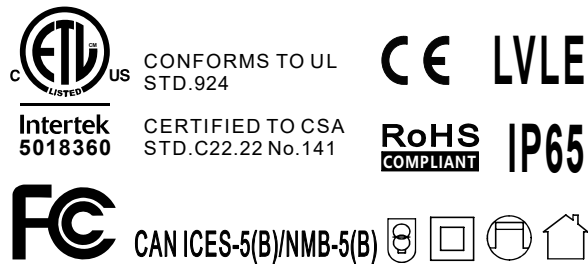
CAN ICES-5(B)/NMB-5(B)



Model Number	LC-ESRLCU-013
Full Product Name	Automatic load control relay
Line Voltage	100 ~ 277Vac / 140 ~ 390Vdc
Line Current	0.1A Max. (AC out power is not included)
Line Frequency	50 / 60Hz
Min. Mains Voltage Operational	90Vac
Max. Mains Voltage Operational	300Vac
Load relay control current	6A@120Vac, 5A@230Vac, 4A@277Vac, 3A@347Vac, 4A@200Vdc, 3A@300Vdc
DALI Output Voltage Typ.	15Vdc
DALI Guaranteed Output Current	55mA / 200mA (Jumper)
Protections	Short circuit protection of DA+ / DA-
Protection Rating	IP24
Ambient Temp. Range	-20°C to +60°C
Dimensions	130×30×20mm

ESR series

Plenum Rated



Features

- Emergency lighting signal control relay
- Conforms to UL STD.924
- Operating voltage: 100Vac to 277Vac / 140Vdc to 390Vdc
- Operating temperature: -20°C to +70°C
- Built-in DALI bus PSU, 15V / 200mA
- One (1) SPDT continuous duty coil
- 1 million cycles minimum mechanical lifetime
- Operate time: 3mS
- Maximum switching signal voltage: 250Vac / 30Vdc
- Maximum switching signal current: 1A

Advantages

- Built-in DALI bus PSU for powering sensor, wireless device etc.
- Large operating window for maximum compatibility
- Multiple combined functions adapt to various emergency management
- Can be used for a variety of lighting fixture and troffers
- DALI bus PSU output current 55mA / 200mA (option)

Initial Wiring Verification

1. Turn OFF Normal Power, Transfer Power.
2. Wire relay according to line diagram.
3. Energize Transfer Power. Emergency Light should illuminate.
4. Energize Normal Power. Emergency Light will turn OFF.

Field Inspection

1. Ensure Normal Power and Transfer Power are energized.
2. Turn OFF Normal Power. Emergency Light will illuminate.

Model Number	LC-ESRLCU-107
Full Product Name	Automatic signal control relay
Line Voltage	100 ~ 277Vac / 140 ~ 390Vdc
Line Current	0.1A Max.
Line Frequency	50 / 60Hz
Min. Mains Voltage Operational	90Vac
Max. Mains Voltage Operational	300Vac
DALI Output Voltage Typ.	15Vdc
DALI Guaranteed Output Current	55mA / 200mA (option)
Protections	Short circuit protection of DA+ / DA-
Protection Rating	IP65
Ambient Temp. Range	-20°C to +70°C
Dimensions	95.3×60.4×26mm

ESR series

Plenum Rated



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STD.924

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RoHS
COMPLIANT IP65



CAN ICES-5(B)/NMB-5(B)



Features

- Emergency lighting signal control relay
- Conforms to UL STD.924
- Operating voltage: 100Vac to 277Vac / 140Vdc to 390Vdc
- Operating temperature: -20°C to +70°C
- Built-in DALI bus PSU, 15V / 200mA
- One (1) SPDT continuous duty coil
- 1 million cycles minimum mechanical lifetime
- Operate time: 3mS
- Maximum switching signal voltage: 250Vac / 30Vdc
- Maximum switchings signal current: 1A
- Additional green LED indicates working status

Advantages

- Built-in DALI bus PSU for powering sensor, wireless device etc.
- Large operating window for maximum compatibility
- Multiple combined functions adapt to various emergency management
- Can be used for a variety of lighting fixture and troffers
- DALI bus PSU output current 55mA / 200mA (option)

Initial Wiring Verification

1. Turn OFF Normal Power, Transfer Power.
2. Wire relay according to wiring diagram.
3. Energize Transfer Power. Emergency Light should illuminate.
4. Energize Normal Power. Emergency Light will turn OFF.

Field Inspection

1. Ensure Normal Power and Transfer Power are energized.
2. Turn OFF Normal Power. Emergency Light will illuminate.

Model Number	LC-ESRLCU-117
Full Product Name	Automatic signal control relay
Line Voltage	100 ~ 277Vac / 140 ~ 390Vdc
Line Current	0.1A Max.
Line Frequency	50 / 60Hz
Min. Mains Voltage Operational	90Vac
Max. Mains Voltage Operational	300Vac
DALI Output Voltage Typ.	15Vdc
DALI Guaranteed Output Current	55mA / 200mA (option)
Protections	Short circuit protection of DA+ / DA-
Protection Rating	IP65
Ambient Temp. Range	-20°C to +70°C
Dimensions	95.3×60.4×26mm

ESR series

Plenum Rated



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STD.C22.22 No.141

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RoHS
COMPLIANT IP65



CAN ICES-5(B)/NMB-5(B)



Features

- Conforms to UL STD.924
- Operating voltage: 100Vac to 277Vac / 140Vdc to 390Vdc
- Operating temperature: -20°C to +70°C
- Built-in DALI bus PSU, 15V / 200mA
- Two (2) SPDT continuous duty coil: signal relay and load relay
- 1 million cycles minimum mechanical lifetime
- Load relay operate time: 15mS
- Maximum switching load voltage: 347Vac / 300Vdc
- Maximum switching load current: 8A Max. @120Vac
- Maximum switching load power: 1385VA Max.
- Signal relay operate time: 3mS
- Maximum switching signal voltage: 250Vac / 30Vdc
- Maximum switching signal current: 1A

Advantages

- Control input on "After Switch" detects wall switch's on and off state , allowing emergency light to be used as normal light
- Built-in DALI bus PSU for powering sensor, wireless device etc.
- Large operating window for maximum compatibility
- Multiple combined functions adapt to various emergency management
- Can be used for a variety of lighting fixture and troffers
- DALI bus PSU output current 55mA / 200mA (option)

Initial Wiring Verification

1. Turn OFF Normal Power, Transfer Power and Wall Switch
2. Wire relay according to wiring diagram
3. Energize Transfer Power. Emergency Light should illuminate
4. Energize Normal Power. Emergency Light will turn OFF
5. Turn ON Wall Switch. Emergency Light should illuminate

Field Inspection

1. Ensure Normal Power and Transfer Power are energized.
2. Turn OFF Wall Switch. Emergency Light will turn OFF.
3. Turn OFF Normal Power. Emergency Light will illuminate.

Model Number	LC-ESRLCU-207
Full Product Name	Automatic load control relay
Line Voltage	100 ~ 277Vac / 140 ~ 390Vdc
Line Current	0.1A Max. (AC out power is not included)
Line Frequency	50 / 60Hz
Min. Mains Voltage Operational	90Vac
Max. Mains Voltage Operational	300Vac
Load relay control current	8A@120Vac, 6A@230Vac, 5A@277Vac, 4A@347Vac, 4.5A@200Vdc, 3A@300Vdc
DALI Output Voltage Typ.	15Vdc
DALI Guaranteed Output Current	55mA / 200mA (option)
Protections	Short circuit protection of DA+ / DA-
Protection Rating	IP65
Ambient Temp. Range	-20°C to +70°C
Dimensions	95.3×60.4×26mm

ESR series

Plenum Rated



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STD.924

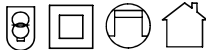
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COMPLIANT IP65



CAN ICES-5(B)/NMB-5(B)



Features

- Conforms to UL STD.924
- Operating voltage: 100Vac to 277Vac / 140Vdc to 390Vdc
- Operating temperature: -20°C to +70°C
- Built-in DALI bus PSU, 15V / 200mA
- One (1) SPDT continuous duty coil
- 1 million cycles minimum mechanical lifetime
- Operate time: 15mS
- Maximum switching load voltage: 347Vac / 300Vdc
- Maximum switching load current: 8A Max. @120Vac
- Maximum switching load power: 1385VA Max.
- Additional green LED indicates working status
- Signal relay operate time: 3mS
- Maximum switching signal voltage: 250Vac / 30Vdc
- Maximum switching signal current: 1A

Advantages

- Control input on "After Switch" detects wall switch's on and off state , allowing emergency light to be used as normal light
- Built-in DALI bus PSU for powering sensor, wireless device etc.
- Large operating window for maximum compatibility
- Multiple combined functions adapt to various emergency management
- Can be used for a variety of lighting fixture and troffers
- DALI bus PSU output current 55mA / 200mA (option)

Initial Wiring Verification

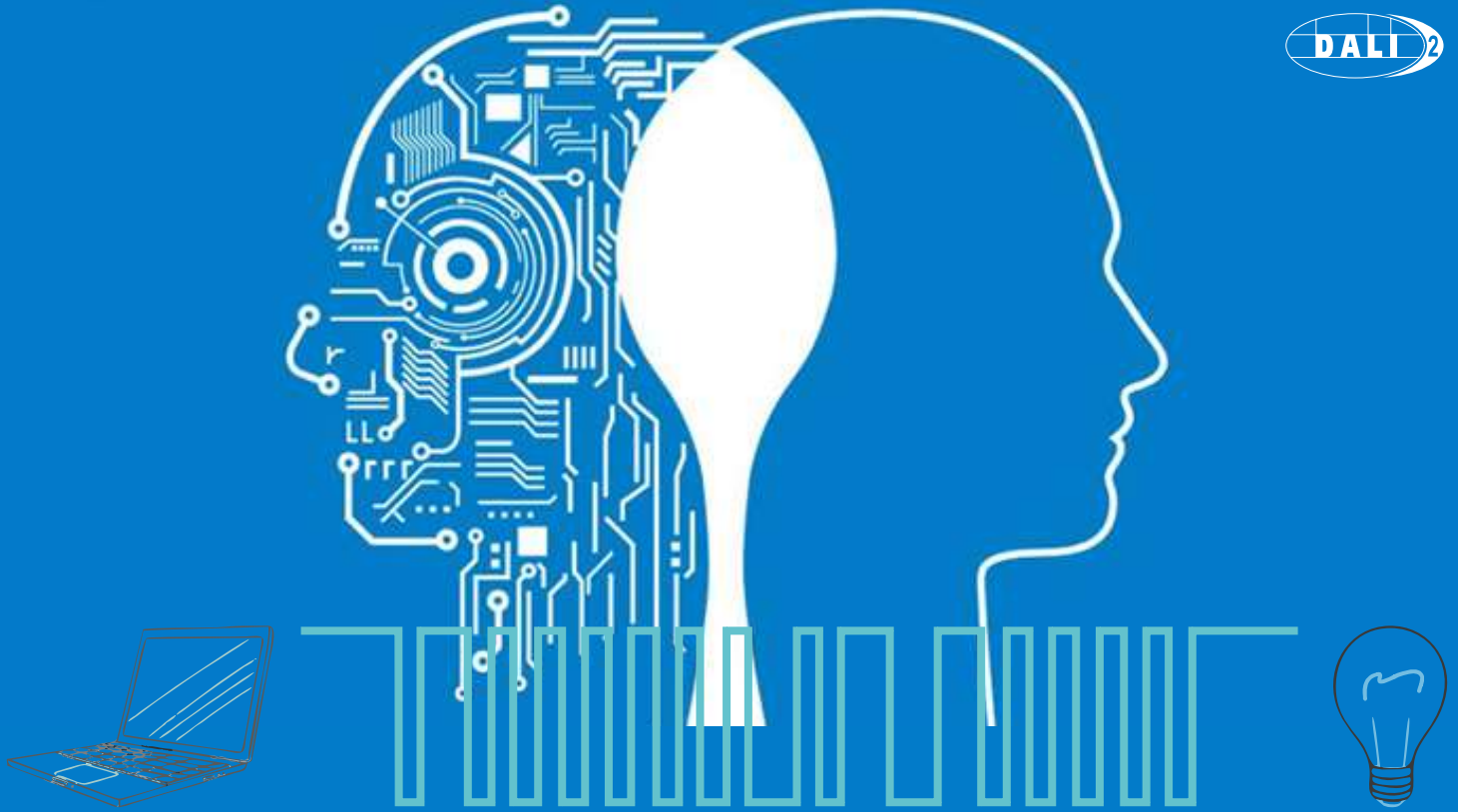
1. Turn OFF Normal Power, Transfer Power and Wall Switch.
2. Wire relay according to line diagram.
3. Energize Transfer Power. Emergency Light should illuminate.
4. Energize Normal Power. Emergency Light will turn OFF.
5. Turn ON Wall Switch. Emergency Light should illuminate.

Field Inspection

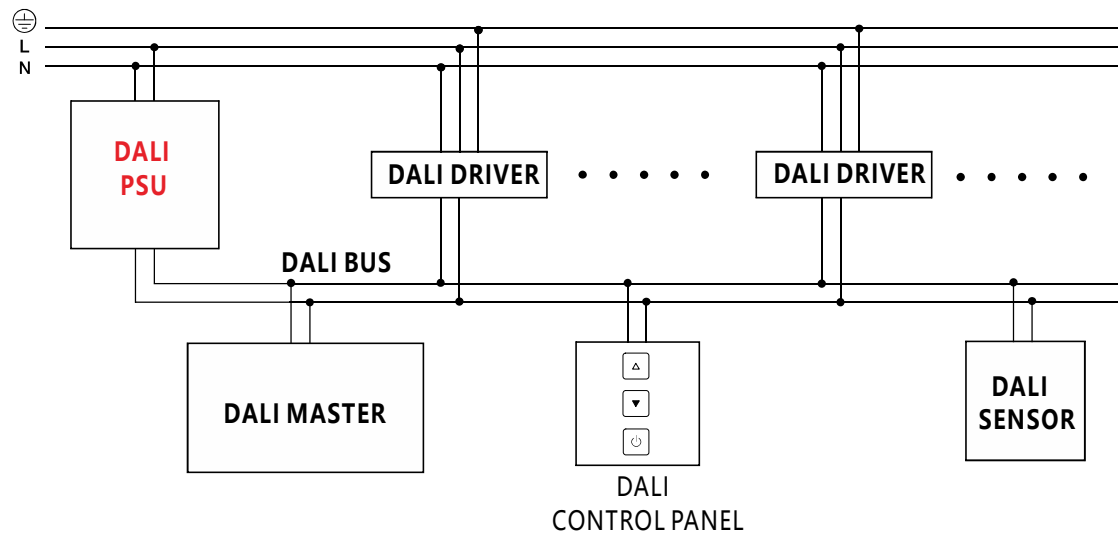
1. Ensure Normal Power and Transfer Power are energized.
2. Turn OFF Wall Switch. Emergency Light will turn OFF.
3. Turn OFF Normal Power. Emergency Light will illuminate.

Model Number	LC-ESRLCU-217
Full Product Name	Automatic load control relay
Line Voltage	100 ~ 277Vac / 140 ~ 390Vdc
Line Current	0.1A Max. (AC out power is not included)
Line Frequency	50 / 60Hz
Min. Mains Voltage Operational	90Vac
Max. Mains Voltage Operational	300Vac
Load relay control current	8A@120Vac, 6A@230Vac, 5A@277Vac, 4A@347Vac, 4.5A@200Vdc, 3A@300Vdc
DALI Output Voltage Typ.	15Vdc
DALI Guaranteed Output Current	55mA / 200mA (option)
Protections	Short circuit protection of DA+ / DA-
Protection Rating	IP65
Ambient Temp. Range	-20°C to +70°C
Dimensions	95.3×60.4×26mm

Bus Power Supply Unit series (PSU)



Wiring



Functional Description

DALI bus PSU is developed according to EN 62386-101 Ed. 2.1, also known as DALI-2. DALI bus PSU is a power supply, rated at 15Vdc and can provide max. 250mA output current.



When set at lower levels, it would allow other LED drivers or control devices with built-in PSU (with lower than 250mA max. current setting) added to the same DALI bus UNKNOWINGLY and still maintain the DALI bus within the 250mA max. supply current limit.

With the provided 30mA current, up to 15 DALI loads can be connected.

With the provided 50mA current, up to 25 DALI loads can be connected.

With the provided 100mA current, up to 50 DALI loads can be connected.

With the provided 200mA current, up to 64 DALI loads can be connected, the remaining 72mA can be used to power other DALI controls without an internal power supply.

With the provided 250mA current, up to 64 DALI loads can be connected, the remaining 122mA can be used to power other DALI controls without an internal power supply.



Standard DALI loads are specified to consume max. 2 mA. Control devices may consume more than 2 mA. If such devices are connected to the DALI bus PSU, the amount of possible connected devices will be reduced. This has to be considered during the application design.

Installation Tips

- DALI signals are not SELV. Therefore the same procedures should be applied as working with mains voltage.
- Individual DALI circuits must not exceed 30mA/50mA/100mA/200mA/250mA.
- The DALI signal wires must not drop more than 2V.

DALI Bus PSU Series list

Model No.	Output current	Connection method	Protection rating	Installation method	Size
DALI PSU-1	30mA,50mA,100mA,200mA SET	Connector	IP24	Surface-mounted casing	96mm*36mm*22mm
DALI PSU-2	30mA,50mA,100mA,200mA SET	Connector	IP24	DIN rail mount	88mm*59mm*37mm
DALI PSU-3	200mA/100mA/50mA fixed	Wire	IP67	Surface-mounted casing	95mm*40mm*25mm
DALI PSU-4	200mA/100mA/50mA fixed	Connector	IP24	Surface-mounted casing	96mm*36mm*22mm
DALI PSU-5	200mA/100mA/50mA fixed	Wire	IP24	Surface-mounted casing	66mm*32mm*23mm
DALI PSU-6	200mA/100mA/50mA fixed	Wire	IP65	Nipple mount casing	95.3mm*60.4mm*26mm
DALI PSU-7	200mA/100mA/50mA fixed	Wire	IP65	Surface-mounted casing	47mm*16mm*14mm

DALI PSU



Features

- Different current options including: 30mA, 50mA, 100mA and 200mA
- Output is double isolated from input
- Output short circuit protection
- DALI bus power "Healthy" status indicator (the LED on top of PSU shows Green)
- Low standby power consumption
- IP24 protection rating
- Operating temperature range: -40 ~ +75 °C
- AC input voltage range: 100 ~ 277Vac
- Compact form factor and thin profile (easy to fit into lamp casing, wall switch box etc.)
- 5 year warranty



Model Number	DALI PSU-1-200
Full Product Name	DALI bus power supply
Line Voltage	100 ~ 277Vac
Line Current	0.1A Max.
Line Frequency	50 / 60Hz
Min. Mains Voltage Operational	90Vac
Max. Mains Voltage Operational	300Vac
Inrush Current	COLD START $\leq 60A$ (twidh = 50us measured at 10% Ipeak) @ 277Vac, Per NEMA 410
Start-up time	$\leq 0.5S$ @ 100Vac
DALI Output Voltage Typ.	15Vdc (No load $\leq 18V$)
DALI Guaranteed Output Current	30mA, 50mA, 100mA, 200mA (DIP switch settings)
Max. Output Power, DALI	5.5W
Output Voltage Ripple	5% max. @ guaranteed output current
Protections	Short circuit protection of DA+ / DA-
Protection Rating	IP24
Ambient Temp. Range	-40°C to +75°C
Dimensions	96×36×22mm

DALI PSU



Features

- Different current options including: 30mA, 50mA, 100mA and 200mA
- Output is double isolated from input
- Output short circuit protection
- Low standby power consumption
- IP24 protection rating
- Operating temperature range: -40 ~ +75 °C
- AC input voltage range: 100 ~ 277Vac
- Compact form factor and thin profile (easy to fit into lamp casing, wall switch box etc.)
- 5 year warranty



Model Number	DALI PSU-2-200
Full Product Name	DALI bus power supply
Line Voltage	100 ~ 277Vac
Line Current	0.1A Max.
Line Frequency	50 / 60Hz
Min. Mains Voltage Operational	90Vac
Max. Mains Voltage Operational	300Vac
Inrush Current	COLD START $\leq 60A$ (twidth = 50us measured at 10% Ipeak) @ 277Vac, Per NEMA 410
Start-up time	$\leq 0.5S$ @ 100Vac
DALI Output Voltage Typ.	15Vdc (No load $\leq 18V$)
DALI Guaranteed Output Current	30mA, 50mA, 100mA, 200mA (DIP switch settings)
Max. Output Power, DALI	5.5W
Output Voltage Ripple	5% max. @ guaranteed output current
Protections	Short circuit protection of DA+ / DA-
Protection Rating	IP24
Ambient Temp. Range	-40°C to +75°C
Dimensions	88×59×37mm

DALI PSU



Features

- Different model number corresponding to different current: 50mA, 100mA and 200mA
- Output is double isolated from input
- Output short circuit protection
- Low standby power consumption
- IP67 protection rating
- Operating temperature range: -40 ~ +75 °C
- AC input voltage range: 100 ~ 277Vac
- Compact form factor and thin profile (easy to fit into lamp casing, wall switch box etc.)
- 5 year warranty



Model Number	DALI PSU-3-XXX
Full Product Name	DALI bus power supply
Line Voltage	100 ~ 277Vac
Line Current	0.1A Max.
Line Frequency	50 / 60Hz
Min. Mains Voltage Operational	90Vac
Max. Mains Voltage Operational	300Vac
Inrush Current	COLD START $\leq 60A$ (twidh = 50us measured at 10% Ipeak) @ 277Vac, Per NEMA 410
Start-up time	$\leq 0.5S$ @ 100Vac
DALI Output Voltage Typ.	15Vdc (No load $\leq 18V$)
DALI Guaranteed Output Current	50mA / 100mA / 200mA
Max. Output Power, DALI	5.5W
Output Voltage Ripple	5% max. @ guaranteed output current
Protections	Short circuit protection of DA+ / DA-
Protection Rating	IP67
Ambient Temp. Range	-40°C to +75°C
Dimensions	95×40×25mm

DALI PSU



Features

- Different model number corresponding to different current: 50mA, 100mA and 200mA
- Output is double isolated from input
- Output short circuit protection
- Low standby power consumption
- IP24 protection rating
- Operating temperature range: -40 ~ +75 °C
- AC input voltage range: 100 ~ 277Vac
- Compact form factor and thin profile (easy to fit into lamp casing, wall switch box etc.)
- 5 year warranty

IS 15885
(Part 2/Sec 13)



R-41137693



FC CAN ICES-5(B)/NMB-5(B)

RoHS
COMPLIANT



SELV

Class 2

Class P



Model Number	DALI PSU-4-XXX
Full Product Name	DALI bus power supply
Line Voltage	100 ~ 277Vac
Line Current	0.1A Max.
Line Frequency	50 / 60Hz
Min. Mains Voltage Operational	90Vac
Max. Mains Voltage Operational	300Vac
Inrush Current	COLD START $\leq 60A$ (twidh = 50us measured at 10% Ipeak) @ 277Vac, Per NEMA 410
Start-up time	$\leq 0.5S$ @ 100Vac
DALI Output Voltage Typ.	15Vdc (No load $\leq 18V$)
DALI Guaranteed Output Current	50mA / 100mA / 200mA
Max. Output Power, DALI	5.5W
Output Voltage Ripple	5% max. @ guaranteed output current
Protections	Short circuit protection of DA+ / DA-
Protection Rating	IP24
Ambient Temp. Range	-40°C to +75°C
Dimensions	96×36×22mm

PSU

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DALI PSU

Features

- Different model number corresponding to different current:
50mA, 100mA and 200mA
- Output is double isolated from input
- Output short circuit protection
- Low standby power consumption
- IP24 protection rating
- Operating temperature range: -40 ~ +75 °C
- AC input voltage range: 100 ~ 277Vac
- Compact form factor and thin profile (easy to fit into lamp casing, wall switch box etc.)
- 5 year warranty



Model Number	DALI PSU-5-XXX
Full Product Name	DALI bus power supply
Line Voltage	100 ~ 277Vac
Line Current	0.1A Max.
Line Frequency	50 / 60Hz
Min. Mains Voltage Operational	90Vac
Max. Mains Voltage Operational	300Vac
Inrush Current	COLD START $\leq 60A$ (twidh = 50us measured at 10% Ipeak) @ 277Vac, Per NEMA 410
Start-up time	$\leq 0.5S$ @ 100Vac
DALI Output Voltage Typ.	15Vdc (No load $\leq 18V$)
DALI Guaranteed Output Current	50mA / 100mA / 200mA
Max. Output Power, DALI	5.5W
Output Voltage Ripple	5% max. @ guaranteed output current
Protections	Short circuit protection of DA+ / DA-
Protection Rating	IP24
Ambient Temp. Range	-40°C to +75°C
Dimensions	66×32×23mm

DALI PSU

Features

- Different model number corresponding to different current:
50mA, 100mA and 200mA
- Output is double isolated from input
- Output short circuit protection
- Low standby power consumption
- IP65 protection rating
- Operating temperature range: -40 ~ +75 °C
- AC input voltage range: 100~277Vac
- Compact form factor and thin profile (easy to fit into lamp casing, wall switch box etc.)
- 5 year warranty



IS 15885
(Part 2/Sec 13)



R-41137693



Model Number	DALI PSU-6-XXX
Full Product Name	DALI bus power supply
Line Voltage	100 ~ 277Vac
Line Current	0.1A Max.
Line Frequency	50 / 60Hz
Min. Mains Voltage Operational	90Vac
Max. Mains Voltage Operational	300Vac
Inrush Current	COLD START $\leq 60A$ (twidh = 50us measured at 10% Ipeak) @ 277Vac, Per NEMA 410
Start-up time	$\leq 0.5S$ @ 100Vac
DALI Output Voltage Typ.	15Vdc (No load $\leq 18V$)
DALI Guaranteed Output Current	50mA / 100mA / 200mA
Max. Output Power, DALI	5.5W
Output Voltage Ripple	5% max. @ guaranteed output current
Protections	Short circuit protection of DA+ / DA-
Protection Rating	IP65
Ambient Temp. Range	-40°C to +75°C
Dimensions	95.3×60.4×26mm

DALI PSU



Features

- Different model number corresponding to different current: 50mA, 100mA and 200mA
- Output is not isolated from input
- Output short circuit protection
- Low standby power consumption
- IP65 protection rating
- Operating temperature range: -40 ~ +75 °C
- DC input voltage range: 24 ~ 48Vac
- Compact form factor and thin profile (easy to fit into lamp casing, wall switch box etc.)
- 5 year warranty



Model Number	DALI PSU-7-XXX
Full Product Name	DALI bus power supply
Operating Voltage	24 ~ 48Vdc
Start-up time	≤ 0.5S @ 24Vdc
DALI Output Voltage Typ.	15Vdc (No load ≤ 18V)
DALI Guaranteed Output Current	50mA / 100mA / 200mA
Max. Output Power, DALI	5.5W
Output Voltage Ripple	5% max. @ guaranteed output current
Protections	Short circuit protection of DA+ / DA-
Protection Rating	IP65
Ambient Temp. Range	-40°C to +75°C
Dimensions	47×16×14mm



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