

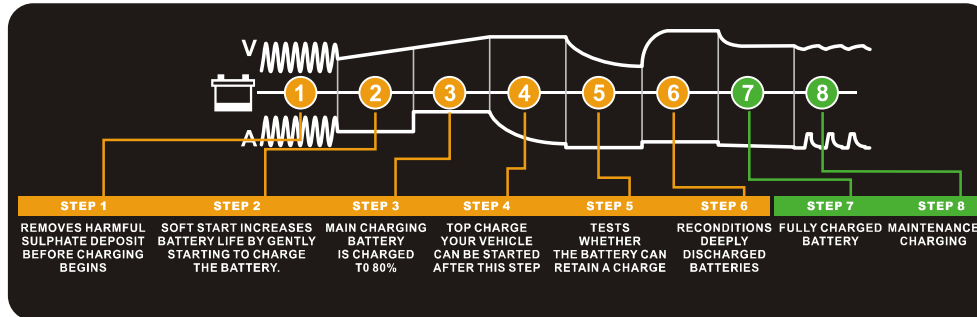
MEC BATTERY CHARGER

Mcu Controlled & 8-Stage Switchmode

No matter the size or type, leave it to MEC-charge. power for professionals

THE 8 STAGES ARE:

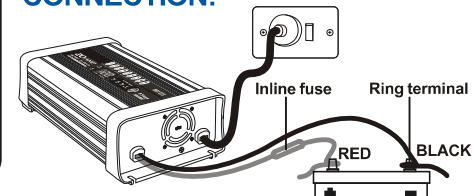
The 8-stages are: Desulphation ; Soft Start; Bulk; Absorption; Analyse; Recondition; Float and Pulse.



FUNCTION:

1. Polarity protection
2. Output short protection
3. Non battery link protection
4. Disconnect protection
5. Over voltage protection
6. Over temperature protection
7. Automatic temperature controlled cooling fan.

CONNECTION:



MEC 1205 MEC 1207



MEC 1210 MEC 1212

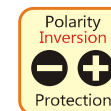


MEC 2405 MEC 2410



MEC 1215 MEC 1220

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No matter the size or type, leave it to MEC-charge. power for professionals

8-STAGE AUTOMATIC CHARGING

This is a fully automatic battery charger with 8 charge stages.

Automatic charging protects your battery from being overcharged. So you can leave the charger connected to the battery indefinitely.

8-stage charging is a very comprehensive and accurate charging process that gives your battery longer life and better performance compared to using traditional chargers.

8-stage chargers are suitable for most battery types including WET, MF, Calcium, AGM, and GEL batteries. They may also help restore drained and sulphated batteries.

Desulphation

The Desulphation stage may break down sulphation that occurs in batteries that have been left flat for extended periods of time, returning them back to full charge. sulphation occurs when lead-sulphate hardens and clogs up the battery cells.

Soft Start

A preliminary charge processes that gently introduces power to the battery. This protects the battery and increases battery life.

Bulk (Constant Current)

Charging with maximum current until approximately 80% battery capacity.

Absorption (Constant Voltage)

Charging with declining current to maximize up to 100% battery capacity.

Analyse

An automatic battery test is conducted immediately after the absorption stage. The test monitors the voltage for 90 seconds to determine if the charge was successful.

Recondition

Choose the Recond program to add the Recond step to the charging process. During the Recond step voltage increases to create controlled

gasing in the battery. Gasing mixes the battery acid and gives back energy to the battery.

Float

The Float stage maintains the battery at 100% charge without overcharging or damaging the battery. This means the charger can be left connected to the battery indefinitely.

Pulse

Maintaining the battery at 95-100% capacity. The charger monitors the battery voltage and gives a pulse when necessary to keep the battery fully charged.

※ The battery charger has an 8-step fully automatic charging cycle. the cycle is repeated infinitely. If the terminal voltage drops below a lower limit, the charger automatically goes back to the beginning of the charging curve.

SPECIFICATIONS

P/No.	MEC 1205	MEC 1207	MEC 1210	MEC 1212	MEC 1215	MEC 1220	MEC 2405	MEC 2410
Charger Type	8-Stage automatic							
Input Voltage	220-240V~, 50/60Hz / 110V~, 60Hz							
Input Power	154W	215W	307W	332W	415W	554W	296W	547W
Output Voltage	12V DC	12V DC	12V DC	12V DC	12V DC	12V DC	24V DC	24V DC
Output Current	5A	7A	10A	12A	15A	20A	5A	10A
Minimum Start Voltage	2V	2V	2V	2V	2V	2V	4V	4V
Back Drain	1mA	1mA	1mA	1mA	1mA	1mA	1mA	1mA
Current Fuse Rating	250VAC, T3.15A	250VAC, T3.15A	250VAC, T3.15A	250VAC, T3.15A	250VAC, T3.15A	250VAC, T5A	250VAC, T3.15A	250VAC, T5A
CHARGE CONTROL								
Desulphation	Pulse charge up to 11V						Pulse charge up to 22V	
Soft Start	Half the rated set current up to 12.5V						Half the rated set current up to 25V	
Bulk	5A up to 14.1V (GEL) 14.4(AGM) 14.7V(WET) 14.7V(CALCIUM)	7A up to 14.1V (GEL) 14.4(AGM) 14.7V(WET) 14.7V(CALCIUM)	10A up to 14.1V (GEL) 14.4(AGM) 14.7V(WET) 14.7V(CALCIUM)	12A up to 14.1V (GEL) 14.4(AGM) 14.7V(WET) 14.7V(CALCIUM)	15A up to 14.1V (GEL) 14.4(AGM) 14.7V(WET) 14.7V(CALCIUM)	20A up to 14.1V (GEL) 14.4(AGM) 14.7V(WET) 14.7V(CALCIUM)	5A up to 28.2V (GEL) 28.8(AGM) 29.4V(WET) 29.4V(CALCIUM)	10A up to 28.2V (GEL) 28.8(AGM) 29.4V(WET) 29.4V(CALCIUM)
Absorption	Constant voltage until current drops to 0.75A	Constant voltage until current drops to 1.05A	Constant voltage until current drops to 1.5A	Constant voltage until current drops to 1.8A	Constant voltage until current drops to 2.25A	Constant voltage until current drops to 3A	Constant voltage until current drops to 0.75A	Constant voltage until current drops to 1.5A
Analyse	Monitors voltage for 90 seconds							
Recondition	Constant current (0.75A) for 30 min or 4 hours limited to: 14.1V (GEL) 14.4(AGM) 16V(WET) 16V(CALCIUM)	Constant current (1.05A) for 30 min or 4 hours limited to: 14.1V (GEL) 14.4(AGM) 16V(WET) 16V(CALCIUM)	Constant current (1.5A) for 30 min or 4 hours limited to: 14.1V (GEL) 14.4(AGM) 16V(WET) 16V(CALCIUM)	Constant current (1.8A) for 30 min or 4 hours limited to: 14.1V (GEL) 14.4(AGM) 16V(WET) 16V(CALCIUM)	Constant current (2.25A) for 30 min or 4 hours limited to: 14.1V (GEL) 14.4(AGM) 16V(WET) 16V(CALCIUM)	Constant current (3A) for 30 min or 4 hours limited to: 14.1V (GEL) 14.4(AGM) 16V(WET) 16V(CALCIUM)	Constant current (0.75A) for 30 min or 4 hours limited to: 28.2V (GEL) 28.8(AGM) 32V(WET) 32V(CALCIUM)	Constant current (1.5A) for 30 min or 4 hours limited to: 28.2V (GEL) 28.8(AGM) 32V(WET) 32V(CALCIUM)
Float	13.7V also with pulse feature						27.4V also with pulse feature	
Pulse	12.6V- 14.1V,5-2A (GEL) 12.6V- 14.4V,5-2A (AGM) 12.6V- 14.7V,5-2A (WET) 12.6V- 14.7V,5-2A (CALCIUM)	12.6V- 14.1V,7-2A (GEL) 12.6V- 14.4V,7-2A (AGM) 12.6V- 14.7V,7-2A (WET) 12.6V- 14.7V,7-2A (CALCIUM)	12.6V- 14.1V,10-2A (GEL) 12.6V- 14.4V,10-2A (AGM) 12.6V- 14.7V,10-2A (WET) 12.6V- 14.7V,10-2A (CALCIUM)	12.6V- 14.1V,12-2A (GEL) 12.6V- 14.4V,12-2A (AGM) 12.6V- 14.7V,12-2A (WET) 12.6V- 14.7V,12-2A (CALCIUM)	12.6V- 14.1V,15-2A (GEL) 12.6V- 14.4V,15-2A (AGM) 12.6V- 14.7V,15-2A (WET) 12.6V- 14.7V,15-2A (CALCIUM)	12.6V- 14.1V,20-2A (GEL) 12.6V- 14.4V,20-2A (AGM) 12.6V- 14.7V,20-2A (WET) 12.6V- 14.7V,20-2A (CALCIUM)	25.2V- 28.2V,5-2A (GEL) 25.2V- 28.8V,5-2A (AGM) 25.2V- 29.4V,5-2A (WET) 25.2V- 29.4V,5-2A (CALCIUM)	25.2V- 28.2V,10-2A (GEL) 25.2V- 28.8V,10-2A (AGM) 25.2V- 29.4V,10-2A (WET) 25.2V- 29.4V,10-2A (CALCIUM)
Efficiency	App.85%							
Thermal Protect	65°C +/-5°C							
Cooling Fan	Automatic temperature controlled							
Ambient Temperature	-20°C to +50°C , output power is reduced automatically at high temperatures							
Over Voltage Protection	The 12V charger will automatically protection if the voltage is higher than 17.5V.						The 24V charger will automatically protection if the voltage is higher than 35V.	
BATTERY RANGE								
Deep Cycle	35-100Ah	50-140Ah	70-200Ah	80-240Ah	100-300Ah	134-400Ah	35-100Ah	70-200Ah
Types of Batteries	Most types of lead acid batteries including WET, MF, Calcium, AGM, and GEL							
Dimension (L×W×H)	197x116x62mm	197x116x62mm	197x116x62mm	197x116x62mm	217x116x62mm	217x116x62mm	197x116x62mm	217x116x62mm
Weight	1.05Kg	1.05Kg	1.1Kg	1.1Kg	1.28Kg	1.28Kg	1.1Kg	1.28Kg

* Internal fuses should only be replaced by qualified electrical appliance repairer

MEC BATTERY CHARGER

Mcu Controlled & 8-Stage Switchmode

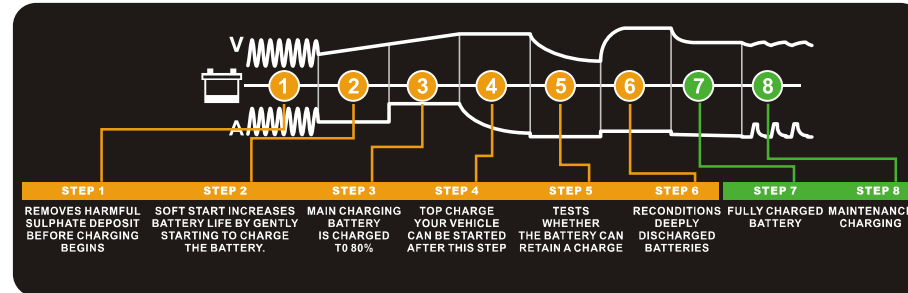
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THE 8 STAGES ARE:

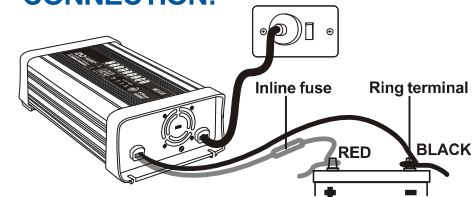
The 8-stages are: Desulphation; Soft Start; Bulk; Absorption; Analyse; Recondition; Float and Pulse.



FUNCTION:

1. Polarity protection
2. Output short protection
3. Non battery link protection
4. Disconnect protection
5. Over voltage protection
6. Over temperature protection
7. Automatic temperature controlled cooling fan.

CONNECTION:



MEC 1225L



8 STAGE
SMART / AUTOMATIC
12/24 VOLT
MEC/MFC-Series

MEC 2413L



MEC 1235L



MEC 2418L



8-STAGE AUTOMATIC CHARGING

This is a fully Power Factor Correction (PFC) automatic battery charger with 8 charge stages. Automatic charging protects your battery from being overcharged. So you can leave the charger connected to the battery indefinitely. 8-stage charging is a very comprehensive and accurate charging process that gives your battery longer life and better performance compared to using traditional chargers.

The AUTOMATIC BATTERY CHARGER has an 8-step fully automatic charging cycle, the cycle is repeated infinitely. If the terminal voltage drops below a lower limit, the charger automatically goes back to the beginning of the charging curve.

SPECIFICATIONS

P/No.	MEC 1225L	MEC 1235L	MEC 2413L	MEC 2418L
Charger Type	8-Stage automatic			
Input Voltage	<input type="checkbox"/> 220-240V~, 50/60Hz		<input type="checkbox"/> 110V~, 60Hz	
Input Power	428W	598W	433W	610W
Output Voltage	12V DC	12V DC	24V DC	24V DC
Output Current	25A	35A	13A	18A
Minimum Start Voltage	Lead Acid: 2.0V Lithium: 1.0V		Lead Acid: 4.0V Lithium: 2.0V	
Back Drain	1.5mA	4mA	1.5mA	4mA
Current Fuse Rating	<input type="checkbox"/> 220-240V~, T5A, 250V AC		<input type="checkbox"/> 110V~, T8A, 250V AC	
CHARGE CONTROL				
LITHIUM BATTERY CHARGE STAGE: 1 - Soft Start 2 - Bulk 3 - Absorption 4 - Analyse 5 - Completion 6 - Maximization 7 - Float 8 - Maintain				
LEAD ACID BATTERY CHARGE STAGE: 1 - Desulphation 2 - Soft Start 3 - Bulk 4 - Absorption 5 - Analyse 6 - Recondition 7 - Float 8 - Pulse				
Over Voltage Protection	The 12V lithium battery charger will automatically protection if the voltage is higher than 15.5V.		The 24V lithium battery charger will automatically protection if the voltage is higher than 31V.	
	The 12V lead acid charger will automatically protection if the voltage is higher than 17.5V.		The 24V lead acid charger will automatically protection if the voltage is higher than 35V.	
POWER SUPPLY				
Set Voltage	13.8V	13.8V	27.6V	27.6V
Maximum Current	25A	35A	13A	18A
Efficiency	App.85%			
Thermal Protect	65°C +/-5°C			
Cooling Fan	Automatic temperature controlled			
Ambient Temperature	-20°C to +50°C , output power is reduced automatically at high temperatures			
BATTERY RANGE				
Deep Cycle	50-250Ah (LITHIUM BATTERY) 167-500Ah (LEAD ACID BATTERY)	70-350Ah (LITHIUM BATTERY) 240-700Ah (LEAD ACID BATTERY)	26-130Ah (LITHIUM BATTERY) 86-260Ah (LEAD ACID BATTERY)	36-180Ah (LITHIUM BATTERY) 120-360Ah (LEAD ACID BATTERY)
Types of Batteries	Most types of 12V Lithium-ion LiFePO4 batteries and Lead Acid batteries including WET, MF, Calcium, AGM and GEL		Most types of 24V Lithium-ion LiFePO4 batteries and Lead Acid batteries including WET, MF, Calcium, AGM and GEL	
Dimension (L×W×H)	217x116x62mm	250x142x58mm	217x116x62mm	250x142x58mm
Weight	1.32Kg	1.67Kg	1.32Kg	1.67Kg

* Internal fuses should only be replaced by qualified electrical appliance repairer

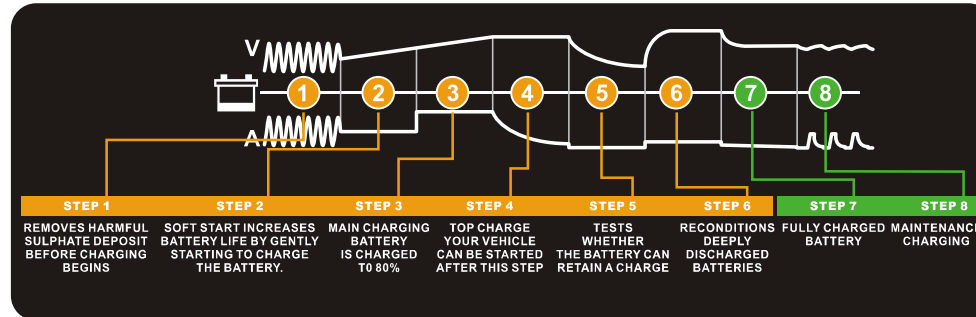
MFC BATTERY CHARGER

McU Controlled & 8-Stage Switchmode

No matter the size or type, leave it to MFC-charge. power for professionals

THE 8 STAGES ARE:

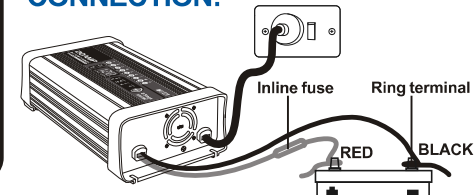
The 8-stages are: Desulphation ; Soft Start; Bulk; Absorption; Analyse; Recondition; Float and Pulse.



FUNCTION:

1. Polarity protection
2. Output short protection
3. Non battery link protection
4. Disconnect protection
5. Over voltage protection
6. Over temperature protection
7. Automatic temperature controlled cooling fan.
8. Night. Charging with reduced power and almost silent fan for 8 hours.

CONNECTION:



MFC 1205 | MFC 1207



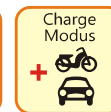
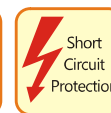
MFC 1210 | MFC 1212



MFC 2405 | MFC 2410



MFC 1215 | MFC 1220



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McU Controlled & 8-Stage Switchmode BATTERY CHARGER MFC

No matter the size or type, leave it to MFC-charge. power for professionals

8-STAGE AUTOMATIC CHARGING

This is a fully automatic battery charger with 8 charge stages. Automatic charging protects your battery from being overcharged. So you can leave the charger connected to the battery indefinitely.

8-stage charging is a very comprehensive and accurate charging process that gives your battery longer life and better performance compared to using traditional chargers. 8-stage chargers are suitable for most battery types including WET, MF, Calcium, AGM, and GEL batteries. They may also help restore drained and sulphated batteries.

Desulphation

The Desulphation stage may break down sulphation that occurs in batteries that have been left flat for extended periods of time, returning them back to full charge. sulphation occurs when lead-sulphate hardens and clogs up the battery cells.

Soft Start

A preliminary charge processes that gently introduces power to the battery. This protects the battery and increases battery life.

Bulk (Constant Current)

Charging with maximum current until approximately 80% battery capacity. Bulk mode for the charging cycle. The start phase continues until the battery's terminal voltage has risen above the set limit, at which point the charger switches to bulk charging. If the terminal voltage has not passed the voltage limit within the time limit, the charger switches to fast mode (Step 3 lamp solid) and discontinues the charging. If so, the battery is faulty or its capacity is too large.

Absorption (Constant Voltage)

Charging with declining current to maximize up to 100% battery capacity.

Analyse

Tests the battery whether can save power, if unable battery may need replacing.

Recondition

Choose the Recond program to add the Recond step to the charging process. During the Recond step voltage increases to create controlled gassing in the battery. Gassing mixes the battery acid and gives back energy to the battery. This recondition stage can recover batteries from a deeply discharged state increasing performance and battery life.

RECOND - This mode is used to recover deep discharged flooded batteries where you could expect a stratified acid (high acid weight in the bottom, low on top). Check with battery manufacturer when in doubt. Use this mode with care, because the high voltage will cause some water loss. 16V/32V is normally no problem for electronics in 12V/24V system. Consult your supplier when in doubt. Life of light bulbs will be reduced at higher voltage. Try to disconnect light from the battery during this phase. Maximum effect and minimum risk for electronics is achieved by charging a disconnected battery.

Float

The Float stage maintains the battery at 100% charge without overcharging or damaging the battery.

This means the charger can be left connected to the battery indefinitely.

Pulse

Maintaining the battery at 9-5100% capacity. The charger monitors the battery voltage and gives a pulse when necessary to keep the battery fully charged.

***The battery charger has an 8-step fully automatic charging cycle.** the cycle is repeated infinitely. If the terminal voltage drops below a lower limit, the charger automatically goes back to the beginning of the charging curve.

Night mode

- 1. NIGHT** – This mode is equal to NORMAL, but with reduced current. The noise of the built-in fan has reduced to its lowest level and the unit is almost silent. The Unit returns automatically to NORMAL after 8 hours. To ensure that the charger restarts in "NIGHT" mode in the event of a power failure the setting is stored in a memory. The indication shows "NIGHT" even if the charger has returned to NORMAL mode to remind that the charger will start in NIGHT mode next time.
- 2. NIGHT** – The "NIGHT" mode will fail in the event of a power failure and also the charger is disconnected with the battery. Next time use this function to be reset.
- 3.** If want to cancel the "NIGHT" function, press the mode button to cancel until "NIGHT" indicator quench.

SPECIFICATIONS

P/No.	MFC 1205	MFC 1207	MFC 1210	MFC 1212	MFC 1215	MFC 1220	MFC 2405	MFC 2410
Charger Type	8-Stage automatic							
Input Voltage	220-240V~, 50/60Hz / 110V~, 60Hz							
Input Power	154W	215W	307W	332W	415W	554W	296W	547W
Output Voltage	12V DC	12V DC	12V DC	12V DC	12V DC	12V DC	24V DC	24V DC
Output Current	5A	7A	10A	12A	15A	20A	5A	10A
Minimum Start Voltage	2V	2V	2V	2V	2V	2V	4V	4V
Back Drain	1mA	1mA	1mA	1mA	1mA	1mA	1mA	1mA
Current Fuse Rating	250VAC, T3.15A	250VAC, T3.15A	250VAC, T3.15A	250VAC, T3.15A	250VAC, T3.15A	250VAC, T5A	250VAC, T3.15A	250VAC, T5A
CHARGE CONTROL								
Desulphation	Pulse charge up to 11V						Pulse charge up to 22V	
Soft Start	Half the rated set current up to 12.5V						Half the rated set current up to 25V	
Bulk	5A up to 14.4V /0.8A(SMALL) 14.4V(NORMAL) 14.7V(COLD) 14.4V(RECONDITION)	7A up to 14.4V(NORMAL) 14.7V(COLD) 14.4V(RECONDITION)	10A up to 14.4V(NORMAL) 14.7V(COLD) 14.4V(RECONDITION)	12A up to 14.4V(NORMAL) 14.7V(COLD) 14.4V(RECONDITION)	15A up to 14.4V(NORMAL) 14.7V(COLD) 14.4V(RECONDITION)	20A up to 14.4V(NORMAL) 14.7V(COLD) 14.4V(RECONDITION)	5A up to 28.8V(NORMAL) 29.4V(COLD) 28.8V(RECONDITION)	10A up to 28.8V(NORMAL) 29.4V(COLD) 28.8V(RECONDITION)
Absorption	Constant voltage until current drops to 0.75A or 0.15A(Small)	Constant voltage until current drops to 1.05A	Constant voltage until current drops to 1.5A	Constant voltage until current drops to 1.8A	Constant voltage until current drops to 2.25A	Constant voltage until current drops to 3A	Constant voltage until current drops to 0.75A	Constant voltage until current drops to 1.5A
Analyse	Monitors voltage for 180 seconds							
Recondition	Max 16V / 0.75A or 0.12A for 30 min or 4h de pending on battery voltage	Max 16V / 1.05A for 30 min or 4h de pending on battery voltage	Max 16V / 1.5A for 30 min or 4h de pending on battery voltage	Max 16V / 1.8A for 30 min or 4h de pending on battery voltage	Max 16V / 2.25A for 30 min or 4h de pending on battery voltage	Max 16V / 3A for 30 min or 4h de pending on battery voltage	Max 32V / 0.75A for 30 min or 4h de pending on battery voltage	Max 32V / 1.5A for 30 min or 4h de pending on battery voltage
Float	13.7V also with pulse feature						27.4V also with pulse feature	
Pulse	12.6-14.4V/0.8-0.4A(SMALL) 12.6- 14.4V/5-2A (NORMAL) 12.6- 14.7V/5-2A (COLD) 12.6- 14.4V/5-2A (RECOND)	12.6-14.4V/7-2A(NORMAL) 12.6- 14.7V/7-2A (COLD) 12.6- 14.4V/7-2A(RECOND)	12.6- 14.4V/10-2A (NORMAL) 12.6- 14.7V/10-2A (COLD) 12.6- 14.4V/10-2A (RECOND)	12.6-14.4V/12-2A(NORMAL) 12.6- 14.7V/12-2A (COLD) 12.6- 14.4V/12-2A(RECOND)	12.6-14.4V/15-2A(NORMAL) 12.6- 14.7V/15-2A (COLD) 12.6- 14.4V/15-2A(RECOND)	12.6- 14.4V/20-2A (NORMAL) 12.6- 14.7V/20-2A (COLD) 12.6- 14.4V/20-2A (RECOND)	25.2-28.8V/5-2A(NORMAL) 25.2-29.4V/5-2A (COLD) 25.2-28.8V/5-2A(RECOND)	25.2-28.8V/10-2A(NORMAL) 25.2-29.4V/10-2A (COLD) 25.2-28.8V/10-2A(RECOND)
Efficiency	App.85%							
Thermal Protect	65°C +/- 5°C							
Cooling Fan	Automatic temperature controlled							
Ambient Temperature	-20°C to +50°C , output power is reduced automatically at high temperatures							
Over Voltage Protection	The 12V charger will automatically protection if the voltage is higher than 17.5V.						The 24V charger will automatically protection if the voltage is higher than 35V.	
BATTERY RANGE								
Deep Cycle	35-100Ah 1.2 – 14Ah (Small mode)	50-140Ah	70-200Ah	80-240Ah	100-300Ah	134-400Ah	35-100Ah	70-200Ah
Types of Batteries	Most types of lead acid batteries including WET, MF, Calcium, AGM, and GEL							
Dimension (L×W×H)	197x116x62mm	197x116x62mm	197x116x62mm	197x116x62mm	217x116x62mm	217x116x62mm	197x116x62mm	217x116x62mm
Weight	1.05Kg	1.05Kg	1.1Kg	1.1Kg	1.28Kg	1.28Kg	1.1Kg	1.28Kg

* Internal fuses should only be replaced by qualified electrical appliance repairer

MFC BATTERY CHARGER

Mcu Controlled & 8-Stage Switchmode

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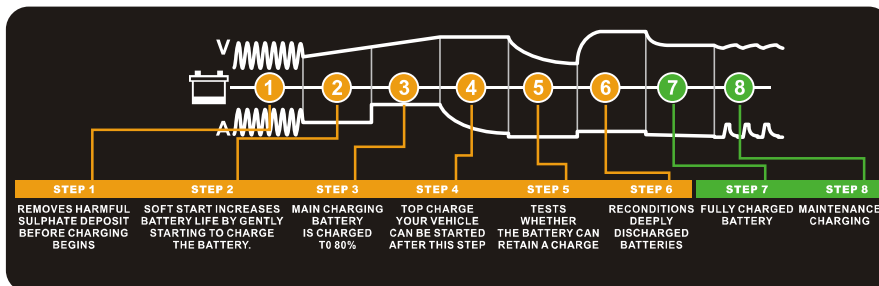
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FUNCTION:

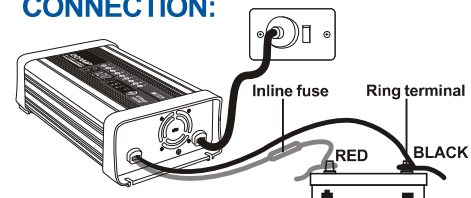
1. Polarity protection
2. Output short protection
3. Non battery link protection
4. Disconnect protection
5. Over voltage protection
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8. Night. Charging with reduced power and almost silent fan for 8 hours.

THE 8 STAGES ARE:

The 8-stages are: Desulphation ; Soft Start; Bulk; Absorption; Analyse; Recondition; Float and Pulse.



CONNECTION:



MFC 1225L



MFC 2413L



MFC 1235L



MFC 2418L

8-STAGE AUTOMATIC CHARGING

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The AUTOMATIC BATTERY CHARGER has an 8-step fully automatic charging cycle, the cycle is repeated infinitely. If the terminal voltage drops below a lower limit, the charger automatically goes back to the beginning of the charging curve.

Night mode

1. NIGHT – This mode is equal to NORMAL, but with reduced current. The noise of the built-in fan has reduced to its lowest level and the unit is almost silent. The Unit returns automatically to NORMAL after 8 hours. To ensure that the charger restarts in "NIGHT" mode in the event of a power failure the setting is stored in a memory. The indication shows "NIGHT" even if the charger has returned to NORMAL mode to remind that the charger will start in NIGHT mode next time.
2. NIGHT – The "NIGHT" mode will fail in the event of a power failure and also the charger is disconnected with the battery. Next time use this function to be reset.
3. If want to cancel the "NIGHT" function, press the mode button to cancel until "NIGHT" indicator quench.

SPECIFICATIONS

P/No.	MFC 1225L	MFC 1235L	MFC 2413L	MFC 2418L
Charger Type	8-Stage automatic			
Input Voltage	<input type="checkbox"/> 220-240V~, 50/60Hz		<input type="checkbox"/> 110V~, 60Hz	
Input Power	428W	598W	433W	610W
Output Voltage	12V DC	12V DC	24V DC	24V DC
Output Current	25A	35A	13A	18A
Minimum Start Voltage	Lead Acid: 2.0V Lithium: 1.0V		Lead Acid: 4.0V Lithium: 2.0V	
Back Drain	1.5mA	4mA	1.5mA	4mA
Current Fuse Rating	<input type="checkbox"/> 220-240V~, T5A, 250V AC		<input type="checkbox"/> 110V~, T8A, 250V AC	
CHARGE CONTROL				
LITHIUM BATTERY CHARGE STAGE: 1 - Soft Start 2 - Bulk 3 - Absorption 4 - Analyse 5 - Completion 6 - Maximization 7 - Float 8 - Maintain				
LEAD ACID BATTERY CHARGE STAGE: 1 - Desulphation 2 - Soft Start 3 - Bulk 4 - Absorption 5 - Analyse 6 - Recondition 7 - Float 8 - Pulse				
Over Voltage Protection	The 12V lithium battery charger will automatically protection if the voltage is higher than 15.5V.		The 24V lithium battery charger will automatically protection if the voltage is higher than 31V.	
	The 12V lead acid charger will automatically protection if the voltage is higher than 17.5V.		The 24V lead acid charger will automatically protection if the voltage is higher than 35V.	
POWER SUPPLY				
Set Voltage	13.8V	13.8V	27.6V	27.6V
Maximum Current	25A	35A	13A	18A
Efficiency	App.85%			
Thermal Protect	65°C +/-5°C			
Cooling Fan	Automatic temperature controlled			
Ambient Temperature	-20°C to +50°C , output power is reduced automatically at high temperatures			
BATTERY RANGE				
Deep Cycle	50-250Ah (LITHIUM BATTERY) 167-500Ah (LEAD ACID BATTERY)	70-350Ah (LITHIUM BATTERY) 240-700Ah (LEAD ACID BATTERY)	26-130Ah (LITHIUM BATTERY) 86-260Ah (LEAD ACID BATTERY)	36-180Ah (LITHIUM BATTERY) 120-360Ah (LEAD ACID BATTERY)
Types of Batteries	Most types of 12V Lithium-ion LiFePO ₄ batteries and Lead Acid batteries including WET, MF, Calcium, AGM and GEL		Most types of 24V Lithium-ion LiFePO ₄ batteries and Lead Acid batteries including WET, MF, Calcium, AGM and GEL	
Dimension (L×W×H)	217x116x62mm	250x142x58mm	217x116x62mm	250x142x58mm
Weight	1.32Kg	1.67Kg	1.32Kg	1.67Kg

* Internal fuses should only be replaced by qualified electrical appliance repairer