

#### **MA4INONE**

## 4 in 1 Battery Charger



#### **Instruction Manual**

#### 12V 24V 36V 48V

- 1. AC Input Cord
- 2. LED Display Bar
- 3. "Battery Voltage Selection" button
- 4. Status Display
- 5. DC Output Cord
- 6. AC Fuse
- 7. Battery



### User Guide 4 in 1 Charger

5 LED indicator quide:

- 1. Confirm that the correct input voltage is being used (200v 240v).
- 2. Plug in the AC cord. DO NOT CONNECT THE CLAMPS TO THE BATTERY YET.
- 3. Press the "Battery Voltage Selection" button and select from the following options:
  - a. When charging a 12V battery, 1 LED will light up.
  - b. When charging a 24V battery, 2 LEDs will light up.
  - c. When charging a 36V battery, 3 LEDs will light up.
  - d. When charging a 48V battery, 4 LEDs will light up.
- 4. Check that the correct setting has been selected and then connect the clamps to battery (Red first and black second).

	LED	Description					
Yellow LED	Steady	The charger is in Soft Start mode. Current is charging slowly.					
	Slow Flash	The charger is in Absorption C.C (Constant Current) mode					
	Fast Flash	The charger is in Absorption C.V (Constant Voltage) mode.					
	Rapid Flash	The charger is in Float C.C (Constant Current) mode.					
Green LED	Slow Flash	The battery is fully charged and is now in Float mode.					
	Fast Flash	The battery is fully charged and is now in Float mode with a current of $< 0.5A$ .					

## LED troubleshooting

	LEDs	Description	Solution		
Red Light	Flashes 2 times	The charger isn't connected to the battery or the DC fuse is broken	Connect the battery. If there is no response, check the fuse.		
	Flashes 3 times	The voltage of the battery is too high or too low.	Check the voltage of the battery and select the correct setting.		
	Flashes 4 times	The thermal sensor has shorted out.	Thermal sensor is broken. Please return to distributor.		
	Flashes 5 times	Inside temperatures are too high (Unit is too hot)	Wait for the unit to cool down. The charger will automatically restart.		

#### Note:

- 1. While the battery is charging, the settings will not change if you press down the "Battery Voltage Selection" key.
- 2. When the green LED switches on, the battery is fully charged. You can disconnect now or leave the battery connected proceed into Float mode.
- 3. Unplug the AC power cord and then unplug the DC output cord to end charging.

# Specifications

Input	voltago			2002	240 Vac			
Input voltage			200~240 Vac					
Input Frequency			50 / 60 Hz					
Current (Without Load)			< 0.1A < 15 A (under)					
	Maximum Input Current							
Maximum Efficiency in Max. Power			> 80% (above)					
	Voltage		12V	24V	36V	48V		
	Maximum Amperage			30A	25A	15A		
	Maximum Output							
	Charging Power			900W	1000W	900W		
Voltage Ser	Voltage Sensor Start-up			ii				
Position			5V					
Charging Range			8 ~	16 ~	27 ~ 39V	40 ~ 55V		
			14.8V	26.4V	27~ 390	40 % 33 V		
	Charging		14.5V	29.0V	42.6V	56.5V		
	e (Vblk)		14.50			50.51		
	Floating Charging		13.8V	27.6V	39.9V	53.2V		
Voltag	e (Vflt)							
	Short		No.					
	Circuit		Yes					
	Protection Reverse Connectio							
Protection								
Function			Yes					
	Protection							
	Overheat		Yes					
	Protection							
Voltage / Current			< 5%					
	cision		< 5%					
Maximum F	-	ing	No Limit					
	me							
	Operating Ambiance			In Full Load: -20 ~ 60°C				
	erature							
	J Ambiance	9	Maximum 95% RV, Not Condensing					
Hun	nidity		· · ·					
Cooling System			The fan automatically adjusts according to the inner temperature.					
Average Temperature in			< 70°C					
Housing								
Dimensions			300 x 223 x 101mm					
Weight			4.5kg					
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# Warning

- 1. This product is designed to charge batteries only. It cannot be used as a power supply.
- 2. This charger is designed to work with the following batteries:
  - a. Lead Acid Cell
  - b. NiMH Cell
  - c. Enclosed Cell
- 3. Do not use batteries with a different voltage then that of the charger.
- 4. Do not operate this charger in direct sunlight and in environments of high humidity.
- 5. If the LED does not change to green after charging for a long period of time, the battery may be damaged.
- 6. The charger uses an aluminium housing which can reach temperatures of 50°C and over. To prevent injury, do not touch the charger while it is in use.
- 7. Check that the AC input voltage is within the voltage range of the charger.

#### Warranty

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The warranty is given by:

Tridon Australia 21-25 Derby St Silverwater, NSW 2128

Tel: 1300 362 263.

Email: mail@tridon.com.au

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