

**Model:** MM30 Series

**Approval:** CE FC

**12V/24V/36V Li/MnO2 Battery Charger**

**MODEL No.** MM30-12/MM30-24/MM30-36

**Features:**

**Size:** 83\*56\*48.5mm (L \* W \* H)

- \* For Lithium Manganese Dioxide ( LiMnO2 ) Batteries
- \* Smart 3 charge steps by Micro Processor control
- \* Charging before detect missing used battery
- \* No Spark during DC clamps connecting
- \* High Efficiency >80%
- \* Protections: SCP / OVP / OTP / Battery Reverse /Time out
- \* No Fan with Thermal Protection

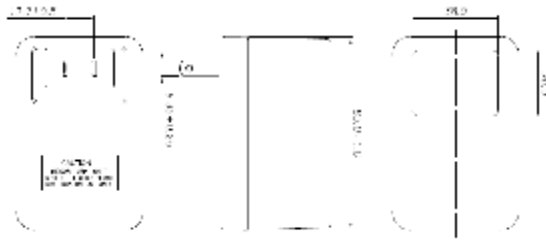


**Specifications:**

Model No.		MM30-□■ □:12V,24=24V,36=36V ■:EU=EU AC plug,US=US AC plug,UK=UK AC plug		
Output	Charge Voltage	12V	24V	36V
		14.6Vdc ±0.3V	29.4Vdc ±0.3V	42Vdc ±0.5V
	Charge Current Range	0.9A ~ 1.1A	0.9A~1.1A	0.6A ~ 0.76A
	Rated Power Range	13.2~16W	26.5~32W	25W ~ 32W
	Efficiency	> 80% @ Full Load		
	Transform stage current	0.25A ~ 0.35A		
Charging state	Step1	Bulk: Constant current (0.7A max output current) charging the battery.		
	Step2	Absorption:Normal mode voltage level charging the battery.		
	Step3	Float:Floating mode voltage level charging battery and cut off output after two hour.		
Input	Input Voltage range	100 ~ 240Vac		
	Input frequency range	47~63Hz		
	Input current rating	0.6A		
Protections	Total Charging time error protection	Unable complete charged at total time over 12HR auto transform to folating charged after 2 HR cut off output.		
	Disconnect	YES.(No charge and fault LED sign)		
	Over Temperature	Cutoff output voltage until internal key componet's Temperature below 105°C		
	Short Circuit	YES,Short-circuit output for one minute.(NO Charge and fault LED sign)		
Environment	Operating Temperature	-20~40 °C		
	Operating Humidity	10~95% RH.		
	Vibration	10~500HZ,2G/P-P,3 axes,15min sweep without malfunction.		
	Shock	20G/Package		
LED Status Indicator	Charging LED Sign	Red LED on		
	Charging Full Sign	Green LED on		
	Fault LED Sign	Red and Green LED alternately flash		
Safety & EMC	Safety Standards	Meet CE EN60335-2-29		
	Withstand Voltage	Meet I/P - O/P: 3 K VAC I/P - FG: 1.5KVAC O/P - FG: 0.5KVAC		
	Isolation Resistance	Meet 100M ohms / 500VDC at 25°C		
	EMI Conduction & Radiator	CISPR22 class B ; FCC part 15 class B		
	Harmonic Current	EN61000-3-2,-3		
	EMS Immunity	EN55014-4-2		
Others	MTBF	210k hours min.MIL-HDBK-217F(25°C)		
	Type of batteries	Lithium Manganese Dioxide ( LiMnO2 )		
	Dimension(L*W*H)	83*56*48.5 mm		
	Packing(L*W*H)/Carton	510*448*335 mm / 80 PCS		
	Weight	0.19KG/PCS N.W: 15.2KG/Carton		
	outpout plug	optional		
Remark	1. All specification measured at nominal(120/230) Vac input and 25°C ambient .			

# Mechanical Mounting

## US Outlet



## UK Outlet

