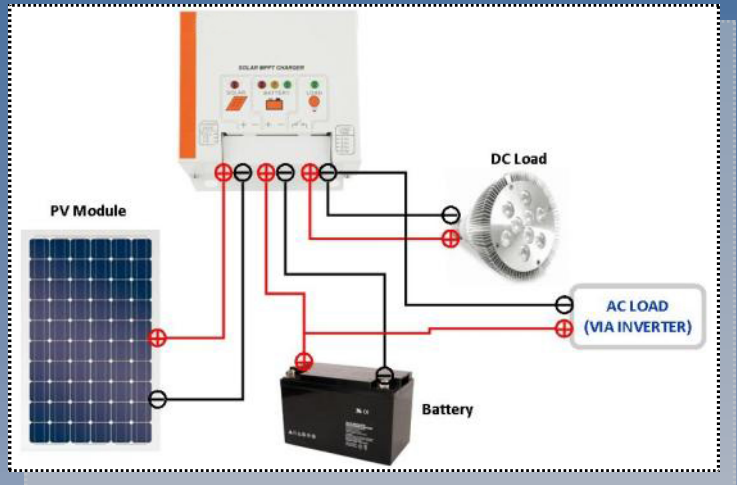


# MPPT LIGHTING CONTROLLER

SUPPORTS THIN FILM MODULES



ARM-612MT

## ELECTRICAL SPECIFICATIONS

Characteristic	MPPT
Nominal System Voltage	12V
MPPT Working Voltage	10 ~ 80VDC
Max Input PV Array	100W
Max Input Current/Voltage	2A / 80VDC
Max Charging Current	6A
Float Voltage	13.8V±5%
Low Voltage Disconnect (LVD)	11.5V±5%
High Voltage Disconnect (HVD)	14.4V±5%
Sleep Mode	10.5V±5%
Standby Power	<1W@Sleep Mode
Protections	High Voltage Overload (lightning), Battery Reverse Polarity (fuse), Battery LVD/HVD
MPPT Efficiency	>90%
Direct Load Output	Max 8A
Load Control	16 programs, fully adjustable

## GENERAL SPECIFICATIONS

Operating Temp.	-20°C~40°C
Storage Temp.	-20°C~70°C
Enclosure Type	Indoor
Working Humidity	20~90%RH Non-Condensing
Dimension	113*98*50mm
Weight	700g

## KEY FEATURES

- Specialized **MPPT** solar charging controller with intelligent lighting control.
- Supports **thin-film** modules and crystalline modules.
- Max charging current 6A, suitable for minimum 12V, 50Ah batteries.
- Perfect for lighting control or general PV purpose.
- MPPT efficiency **>90%**
- High input voltage up to **80V**.
- Smart 16 load/lighting control programs, fully adjustable according to customer needs.
- Automatic day/night detection via PV.
- Offers system protection including high voltage overload (due to lightning), PV/ battery reverse polarity by fuse, battery low and high voltage disconnect (LVD/ HVD).
- Direct load output supports up to 8A.
- LED displays to show PV, battery, and load status/conditions.
- Power saving **SLEEP MODE** with very low power consumption.

\*Product specifications are subject to change without prior notice. ARM Solar is a registered trademark of ARM Solar Inc.

