




LM-LI080-100

Li (NiCoMn) O₂
PWM Solar Charge Controller



-  **Mobile Charging**
-  **Fan**
- 2 5-volt USB Ports**
-  **TV**
- 5 Light Points**
- 3 11.1V 5A DC Ports**
- 3 years warranty**
- 1 11.1V 10A Cigarette Lighter**

Model	LM-LI080	LM-LI100
General Information		
PV Module	80W/18V	100W/18V
Battery Capacity	11.1V/30000 mAh, 333Wh	11.1V/48000 mAh, 533Wh
Working hours (Full battery run time)	16 hrs for 4*5W LED lamps	26 hrs for 4*5W LED lamps
LED Lamp	Constant current source, 5W*4, 450lm	
Port	5V/1A USB port*2, 11.1V/1A LED port*5, 11.1V/5A DC port*3, 11.1V/8A Cigarette Lighter socket*1	
PV Module Details		
PV Module type	Polycrystalline silicon	Polycrystalline silicon
Maximum Power	80 watts	100 watts
Nominal Voltage	18V	18V
Optimum Power Voltage(Vmp)	18.25V	19.12V
Optimum Operating Current(Imp)	4.38A	5.23A
Open Circuit Voltage(Voc)	21.96V	22.68V
Short Circuit Current(Isc)	4.69A	5.60A
Size of Module (L.N.W)	905*668*35mm	1005*668*35mm
Battery Details		
Battery Replaceability	Easily replaceable with common tools. Warranty is void if battery is replaced by end user	
Battery Chemistry	Lithium-ion	
Battery Package Type	18650	
Battery Nominal Voltage	11.1V	
Battery Charging Voltage	12.6V	
Cycle Performance	1000 times (with 80% of its original capacity remaining)	
PCM (Protective Circuit Module)	Overcharge/deep discharge/over current/short circuit protection, battery balance	
PCM Overcharge Protection	4.25±0.05V	
PCM Deep Discharge Protection	2.7±0.1V	
Controller Details		
Controller Nominal Voltage	11.1V	
Controller Max.Charge Current	10A	
Controller Load Current	10A	
LED Indicators	Solar Charging, Battery Capacity, Load Status	
Controller Protection	Overcharge/deep discharge/over current/short circuit protection, reverse polarity protection	
Max. Charging Cut-off Voltage	12.4±0.2V	
PV Input Voltage	9-18V	
Deep discharge Voltage Protection	10.0±0.2V	
Deep discharge Voltage Protection Recover	11.1±0.2V	
Over Voltage Protection	>13.5±0.2V	
Over Voltage Protection Recover	<13.4±0.2V	
Short Circuit Protection	Cut off the output immediately	
Lighting Details		
Lamp Type	LED	
Description of Light Points	12 LEDs in each of 3 light points	
Colour Characteristics	CRI 86, CCT 'Daylight' (>5000 k)	
Distribution Type	Wide	
Lumen Efficacy	100 lm/W	
Lumen Maintenance	100% of the original output remains after 2000 hours run time	
Durability		
Durability tests passed	Switch and connector cycling, strain relief test, physical ingress protection test. Indoor use.	
Special Features		
Mobile charging	Charge mobile phone, torch, radio and other devices	
AC charging (optional)	Using AC adaptor to charge the system with grid electricity.	