

It runs with  
the Sun

# PowerCom



ISO 9001:2008



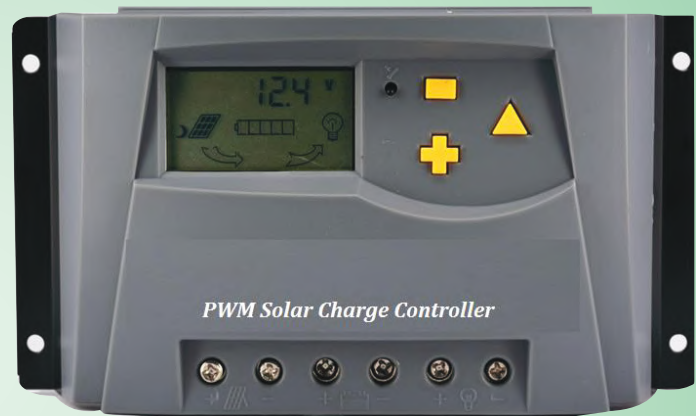
## PWM-Solar Charger Controller

### Product Description »

**POWERCOM LUMIAX Max 48V-Series 30A/40A/50A/60A, GLCD display 48V Fixed PWM Intelligent Solar Charge Controller**-With your own a state of the art device which was developed according to the latest available technical standards.

### Product Features»

1. Design for off-grid solar power system.
2. Applicable to different kinds of batteries.
3. Adopts intelligent technology based algorithm make sure maximum energy harvesting from sun to the solar module
4. Modular design with simple structure and easy maintenance.
5. Automatic power control function for best battery charging profile (Four stages PWM charge way: fast, boost, equalization, float) make sure long lasting of batteries.
6. LCD display: Solar panel current, solar panel voltage, solar panel power, battery group voltage, charge current.
7. Perfect protection function: Solar reverse charge protection, Solar reverse connection protection, Battery reverse connection protection, Battery overcharge protection, Battery over current protection etc, thus the system has higher reliability.
8. Temperature sensor, make the temperature compensation more accurate.
9. Electromagnetic compatibility (EMC) design



### Application

Solar Power for house, hospital, shop etc.

[www.powercom.com.bd](http://www.powercom.com.bd)

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## Technical Specifications

System characteristic	Max3048	Max4048	Max5048	Max6048
System Type	48V Fixed			
Maximum Solar and Load current	30A	40A	50A	60A
Maximum Battery Voltage	80V			
Maximum PV Voltage	110V			
Idle Current	3mA			
Charge Algorithm	4 Stages: Fast Charge, Floating Charge, Absorption/Boost Charge and Equalizing Charge			
Soft Start Time	≤10S			
Conversion Efficiency	96.5% ~ 97%			
PV Modules Utilization Rate	≥95%			
Float Voltage	51.7~58.0V, Default: 54.8V (25°C)			
Fast Voltage	56.0V (25°C)			
Boost Voltage	51.8~64.0V, Default: 58.0V (25°C)			
Equal Voltage	53.0~64.0V, Default: 59.2V (25°C)			
Day/Night Threshold	12.0 ~30V, Default: 12.0V			
Load Disconnect Voltage	SoC	20 ~70%, Default: 30%		
	Voltage	44.0 ~50.0V, Default: 44.4V		
Load reconnect Voltage	SoC	40 ~90%, Default: 50%		
	Voltage	47.2~53.2V, Default: 50.4V		
Battery Type	Liquid, Gel, AGM			
Load mode	Auto, Standard, Timer			
Light on delay	00:00 - 02:00 (Internal 5min) , Default: 00:00			
Light off delay	00:00 - 02:00 (Internal 5min) , Default: 00:00			
Night time 1	00:00 - 09:00 (Internal 15min) , Default: 00:00			
Night time 2	00:00 - 09:00 (Internal 15min) , Default: 00:00			
Temperature compensation	-4.17mV/K per cell (Boost and Equal charge), -3.33 mV/K per cell (Float charge)			
Temp. Range during operation	-10°C ~ + 60° C			
Storage temperature	-25°C ~ + 80° C			
Relative humidity	10%~90% Non-condensation			
Case protection	IP32			

## Power Control & Management

BSCIC Electronics Complex, Level-8  
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