

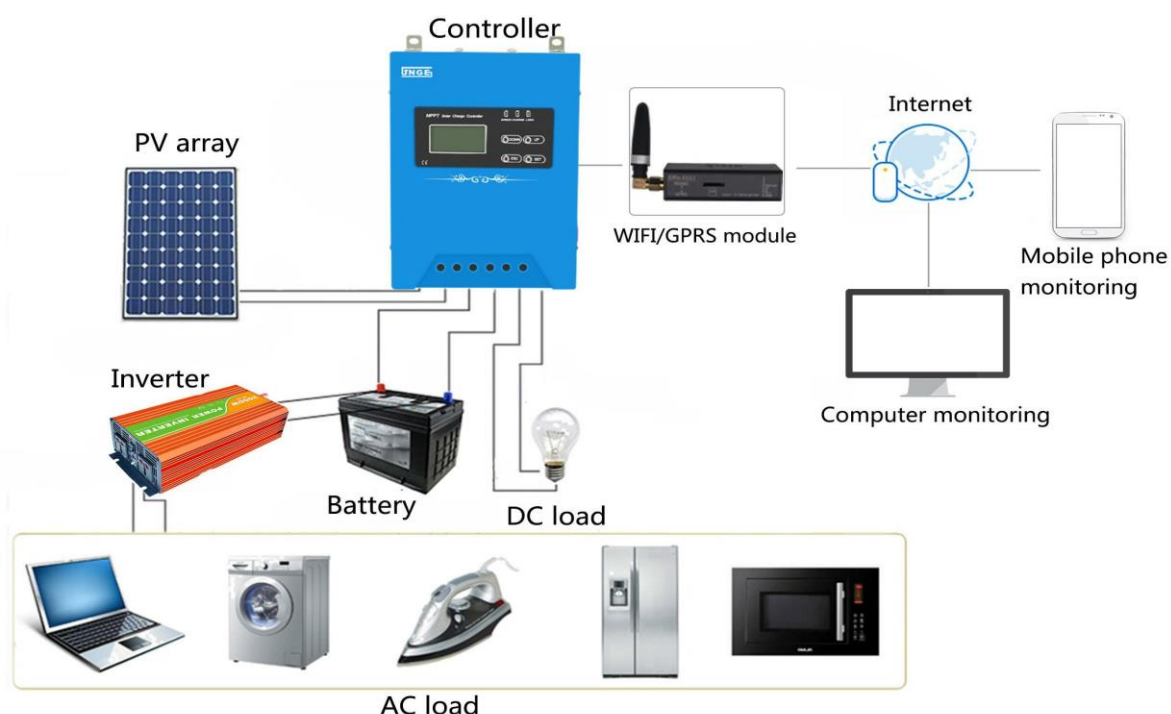
MPPT SOLAR CHARGE CONTROLLER

JN-MPPT-BL

Advanced MPPT Technology with High Tracking Efficiency up to 99.5% and Peak Conversion Efficiency of 98%. Maximizing the Energy From Solar Panels to Charge your battery for off-grid photovoltaic systems.

Product Features:

1. Advanced multi-phase synchronous rectification technology also has high conversion efficiency in low power charging environment.
2. Has an ultra-wide PV array operating voltage range.
3. Advanced MPPT maximum power point tracking technology, the tracking efficiency is not less than 99.5%, compared with the ordinary PWM algorithm, the efficiency is increased by 15 to 20%
4. Using high-quality imported components and advanced power conversion circuit, the maximum conversion efficiency can reach over 98%, the full load efficiency can reach 97%, and a variety of tracking algorithms can be combined to quickly track the maximum power point.
5. Three-stage charging method: MPPT-lifting charging-floating.
6. 12V/24V/48V battery system automatic identification function.
7. RS485 communication can provide communication protocol to facilitate unified management and secondary development for customers.
8. The controller running parameters can be viewed and set through the PC host computer and mobile phone APP, For details, refer to the host computer and APP manual (optional).
9. With battery temperature compensation.
10. comprehensive protection functions: overcharge, over discharge, over temperature, overload, reverse connection and so on.



parameter name	Parameter value (and adjustable range)				
	JN-MPPT-BL				
Current rating (A)	30	40	50	60	70
Maximum charging current (A)	30	40	50	60	70
PV maximum input power (12V) (W)	360	480	600	720	840
PV maximum input power (24V) (W)	720	960	1200	1440	1680
PV maximum input power (48V) (W)	1440	1920	2400	2880	3360
PV maximum input power (96V) (W)	--	--	--	--	--
Output maximum current (A)	21	28	35	42	49
PV panel open circuit input voltage range (V)	20V~100V(12V battery system)				
	40V~145V(24V battery system)				
	80V~145V(48V battery system)				
System identification voltage range (V)	DC9V-DC16V				
	DC18V-DC32V				
	DC42V-DC60V				
MPPT efficiency	> 99.5%				
Conversion efficiency	> 98%				
	Operating environment parameters				
Ambient temperature	-20°C~50°C				
Storage temperature	-30°C~70°C				
Humidity	10% ~ 90%				
Protection grade	IP30				