



MPI-4000
MPI-6000



MPP SOLAR MPI-SERIES

GRID-TIED PHOTOVOLTAIC INVERTER

Our MPI series grid-tied inverters operate based on sophisticated technology and are our best-selling inverter with great track records in Europe and Oceania. Available from 1.5KW to 6KW, these inverters are equipped with MPPT (Maximum Power Point Tracking) capability with wide input range from 150V to 600V, providing excellent system design flexibility. Also featuring a protection rating of IP65 and built-in DC switch, the MPI series inverters work comfortably outdoors and allow servicing and maintenance to be performed safely. Fully certified by leading safety standards VDE/RD/DK/AS/G83/CE, these inverters makes your dream of a free energy world come true. Communication accessories include RS485 Modbus card, SNMP/HTTP web card, wireless module, and GSM/GPRS module.



Specifications



MPI-4000

MPI-6000

ADDITIONAL FEATURES

- Max. conversion efficiency 96%
- Wide MPPT voltage range from 150 to 600V
- All inverters are built in with DC switch compliant to the latest VDE0126-1-1 terms
- Power saving feature allows inverters to consume only 0.1W in standby mode
- Compact, lightweight, and transformerless design make inverter less expensive to ship and easier to install
- Housing in all sizes are IP65 rated, suitable for indoor and outdoor applications
- Anti-islanding and GFCI safety protections
- Versatile communication interface options include RS232, USB, GSM/GPRS/LAN/wireless module, SNMP web card and RS485 modbus card (optional), allowing user to monitor system via Internet
- Intelligent PV monitoring software included to notify user when failure occurs
- Inverters can be series-connected

INPUT SPECIFICATION

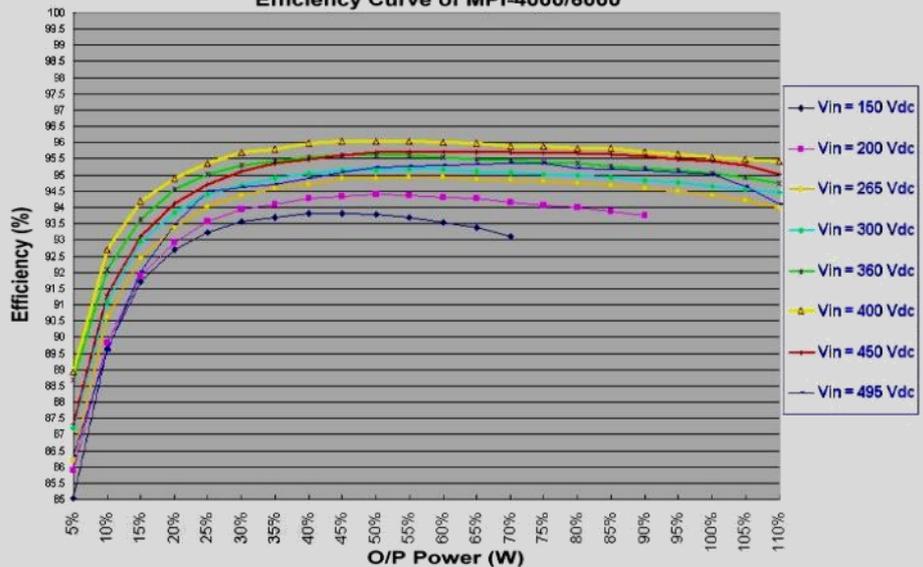
Max Input Power	4700W	6500W
PV Open VDC	500V	600V
Nominal VDC	360 ~ 400V	
MPPT Voltage Range	150 ~ 500V ± 5%	150 ~ 600V ± 5%
System Startup/Initial Feeding Voltage	100V ± 5% / 150V ± 5%	
Working/Shutdown Voltage	100V ~ 500V ± 5% / 80V	100V ~ 600V ± 5% / 80V
Full Rating Working Range	250 ~ 500V	250 ~ 600V
Max Input Current	20A	30A
DC Ripple	<10%	
DC Insulation Resistance	> 8M ohm	
DC Switch	ON/OFF 20A	ON/OFF 30A
DC Connector	Tyco or MC contact (3 pair)	
Attached DC Connector	Tyco or MC contact (1 pair)	

OUTPUT SPECIFICATION

Nominal/Maximum Output	4000/4400W	6000/6000W
Normal Operational Voltage/Range	230V / 198 ~ 256V	
Operational Frequency Range	50/60Hz Auto Selection	
Nominal Output Current	17.4A	26.1A
Output Current Distortion	THD<5%	
Power Factor	>0.99	
DC Current Injection	<0.5% of inverter rated output current	
Normal/Night Standby Power Consumption	<7W / <0.1W	<10W / <0.1W
Conversion/European Efficiency	>96% / >95%	
Ground Current/Frequency Detection Range	0 ~ 500mA / 0 ~ 700Hz	
Ingress Protection Rating	IP65	
Operating Temperature / Humidity	-25 ~ 55°C / 0~95% RH Non-Condensing	
Heat Dissipation	Convection	
Acoustic Noise	<40dB, A-weighted, up to 20KHz	
Altitude	Up to 3000m without power derating, 5°C derate for each additional 500m	
Physical Dimension / Weight	550*300*133mm/21Kg	550*420*143mm/27Kg
Certifications	VDE0126-1-1/RD1663/DK5940/AS4774/CE	VDE0126-1-1/DK5940/CE

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

Efficiency Curve of MPI-4000/6000



INPUT VDC	EUROPEAN EFFICIENCY (μ-EU)
150	NA
200	NA
265	94.02%
300	94.36%
360	94.90%
400	95.35%
450	94.86%
495	94.29%