



Avoiding trunk cables and other expensive proprietary components helps make the SPP Micro Inverters one of the most cost-effective micro inverter solutions on the market.

Avoiding trunk cables also saves a lot of installation time.

Long Life / Long Warranty – The SPP micro inverters are designed for long life and carry a 25-year warranty, the longest inverter warranty in the industry.

Low Cost Accessories – No expensive proprietary required components or trunk cables to drive up the cost. This is one reason why SPP micro inverters have a lower total installed cost per watt than other micro inverters. In many cases, SPP micro inverters will even have a lower installed cost than string inverters.

Simplifies Design and Installation – PV installations are easy to design when you don't have to worry about problems with partial shade conditions, making the installation more simple than using string inverters. No trunk cable on SPP micro inverters make the labor costs lower still. Panel mismatch is also OK - combine multiple ratings or brands panels in the same installation. And replacing a failed or damaged panel is simplified because except for cosmetic concerns, you don't have to match the panel. Works with almost all 60-cell and 72-cell panels up to 285 watts.

More Power – You get more power from the same panels because SPP micro inverters do their work at each panel. The benefit is that shade, soiling, or even a defective or damaged panel will have no effect on the other connected panels. Total system gains of 5% to 20% or more can be expected.

MPPT & Monitoring At The Panel – Crucial Maximum Power Point Tracking is performed right at the panel and not averaged over a string of panels. And each panel reports its performance in real time via a live data feed. Touch Screen Monitor with Web/WiFi/Ethernet/USB.

Uptime – SPP micro inverters have a remarkable uptime record. However, if something goes wrong with a micro inverter it doesn't affect the remainder of the system. SPP micro inverters can be quickly replaced. Plus they are small and low cost, allowing next-day shipping or even keeping a spare on hand.

Allows Larger Systems When you take advantage SPP micro inverters inherent resistance to transient shade conditions you can often access more qualified roof space allowing for larger systems to be installed. And trim or remove less trees.

Safer – When using micro inverters, installers avoid using long high voltage strings up to 600v DC and instead use normal AC power at the same voltages already used in the building.

SPP MI250A MI250B

	Model	MI-250-240A	MI-250-208A	MI-250-EU MI-250-AU
INPUT (DC)	Max Recommended PV Power (Wp)	285		
	Max DC Open Circuit Voltage (Vdc)	60		
	Max DC Input Current (Adc)	12		
	MPPT Tracking Accuracy	>99.5%		
	MPPT Tracking Range (Vdc)	22-55		
	Isc PV (absolute maximum) (Adc)	14		
	Maximum Inverter Backfeed Current to the Array (Adc)	0		
OUTPUT (AC)	Rated AC Output Power (Wp)	220		
	Nominal Power Grid Voltage (Vac)	240	208	230
	Allowable Power Grid Voltage (Vac)	211-264	186-228	configurable
	Allowable Power Grid Frequency (Hz)	59.3-60.5		Configurable
	THD	<3% (at rated power)		
	Power Factor (cos phi, fixed)	>0.99%		
	Current (maximum continuous) (Aac)	1.2		
	Current (inrush) (Peak and Duration)	12A, 15us		
	Nominal Frequency (Hz)	60		50
	Maximum Output Fault Current (Aac)	2.2A peak		
	Maximum Output Overcurrent Protection (Aac)	6.3		
	Maximum Number of Units Per Branch	15		
SYSTEM EFFICIENCY	Peak Efficiency	96.30%	95.70%	95.80%
	CEC Efficiency	95%		
PROTECTION FUNCTIONS	Night Time Tare Loss (Wp)	0.17		
	Over/Under Voltage Protection	Yes		
	Over/Under Frequency Protection	Yes		
	Anti-Islanding Protection	Yes		
	Over Current Protection	Yes		
	Reverse DC Polarity Protection	Yes		
	Overload Protection	Yes		
	Protection Degree	NEMA-6 / IP-67		
	Environment Temperature	-40°C – – + 65°C		
OTHER PARAMETERS	Environment Humidity	100%, condensation		
	Display	LED LIGHT		
	Communications	Power Line		
	Dimension (D – W – H mm)	230*138*35		
	Weight (Kg)	2.0		
	Environment Category	Indoor and outdoor		
	Wet Location	SUITABLE		
	Pollution Degree	PD 3		
	Maximum Altitude	2000 M		
	Overvoltage Category	II (PV), III (AC MAINS)		
	Product Safety Compliance	UL 1741 CSA C22.2 No. 107.1		IEC/EN 62109-1 IEC/EN 62109-2
	Grid Code Compliance * (Refer to the label for the detailed grid code compliance)	IEEE 5047		VDE-AR-N 4105* VDE V0126-1-1/A1 G83/2 AS 4777.2 & AS 4777.3
	Note: For grid code VDE-AR-N 4105, maximum 3.68kVA PV plant is limited. The grid protection report and setting are readable from the gateway. For grid code G83/2, maximum 16A per phase is limited. The grid protection report and setting are readable from the gateway.			

- Advanced digital control techniques using the latest DSP Optimized anti-islanding technique for the highest system reliability.
- Complete protection functions to protect against reverse DC polarity, over temperature, over current, short circuit, over/under voltage, anti-islanding, etc.
- Automatically power-on in the morning and enter a low power mode at night. No local operators required for daily operation.

