



SolarEdge

Safety and Monitoring Interface



Benefit from module-level MPPT with traditional inverters

- Interface between SolarEdge power optimizers and non-SolarEdge inverters
- Module-level MPPT for optimal efficiency
- Module safety voltage for installer and firefighter safety
- Web-based and iPhone module performance monitoring
- Communication via RS232, RS485, USB or Ethernet
- IP65 - Outdoor installation



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Safety and Monitoring Interface SE1000-VG01-20

OVERVIEW

The SolarEdge Safety and Monitoring Interface allows non-SolarEdge inverters to connect to SolarEdge power optimizers, module-integrated power optimizers for module-level MPPT. This provides multiple advantages when adding SolarEdge power optimizers to existing installations and when designing new sites.

The SolarEdge Safety and Monitoring Interface collects module performance data measured by each power optimizer, as well as inverter data, and interfaces with the SolarEdge server to allow

module-level and system-wide monitoring. The following SolarEdge power optimizer features are supported: automatic module voltage shutdown during power shutdown, arc detection and prevention.

The Safety and Monitoring Interface is compatible with a wide range of 3rd party inverters, is certified for outdoor installation and is easy to install.

TECHNICAL DATA

DC INPUT		
Maximum DC Input Voltage	1000	Vdc
Total Maximum Input Current	30	A
Number of String Inputs	2	
DC OUTPUT		
Maximum DC Output Voltage	1000	Vdc
Total Maximum DC Output Current	30	A
AC INPUT		
Supported AC Voltage	85-264	Vac
AC Input Frequency	47-62	Hz
Maximum AC Continuous Input Current	500	mA
Power Consumption, Nominal	< 3	W
ADDITIONAL FEATURES		
Display	LCD and LED for full status review	
Remote User Interface for Configuration, Monitoring and Control	Yes	
Module Safety DC Voltage	Yes	
Module Theft Prevention	Yes	
On-site Master Shutdown	Yes	
Lightning Protection	Yes	
Supported Communication	RS-485, RS-232, USB, Ethernet, ZigBee (optional)	
STANDARD COMPLIANCE		
Emissions	IEC61000-6-2, IEC61000-6-3, IEC61000-3-11, IEC61000-3-12, FCC part15 class B	
Safety	IEC-62103 (EN50178), Draft IEC-62109, UL1741	
INSTALLATION SPECIFICATIONS		
Dimensions (HxWxD)	185 x 265 x 96 / 7.3 x 10.4 x 3.8	mm/in
Weight	2 / 4	kg/lb
Operating Temperature Range	-20° - +65° / -4 - + 149	°C/°F
Protection Rating	IP65	
Material	Polycarbonate	



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