



SolarEdge

Safety and Monitoring Interface



Benefit from module-level monitoring and automatic safety with non-SolarEdge inverters

- Interface between SolarEdge power optimizers and non-SolarEdge inverters
- Module-level monitoring
- Module safety voltage for installer and firefighter safety
- Mobile and web-based module performance monitoring
- Communication via RS232, RS485 or Ethernet
- IP65/NEMA4 - Outdoor installation



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OVERVIEW

SolarEdge power optimizers can be installed with a SolarEdge inverter or with any third party inverter. When installed with a third party inverter, the SolarEdge Safety & Monitoring Interface is required in order to support module-level monitoring and safety capabilities.

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.

SolarEdge power optimizers have a built-in safety feature that eliminates safety risks. When power optimizers are connected, modules continue in "operation mode" only as long as a signal from the Safety & Monitoring Interface is constantly renewed. In absence of this signal, power optimizers automatically go into safety-mode, shutting down DC current as well as voltage in module and string wires.

TECHNICAL DATA

REGION	NORTH AMERICA	REST OF WORLD	
Part Number	SMI-35-RC-US	SMI-35-3C-01	
DC INPUT			
Maximum Input Voltage	600	1000	Vdc
Total Maximum Input Current	35		Adc
Input Type	3/4" conduit	3 x MC4 compatible connectors	
DC OUTPUT			
Maximum DC Output Voltage	600	1000	Vdc
Total Maximum Output Current	35		Adc
Current Sense	Yes		
AC INPUT			
Supported AC Voltage	85-264		Vac
AC Input Frequency	47-62		Hz
Maximum AC Continuous Input Current	300		mA
Power Consumption, Nominal	< 3.5		W
ADDITIONAL FEATURES			
Display	LCD and LED for full status review		
Remote Monitoring	Yes		
Module Safety DC Voltage	Yes		
On-site Master Shutdown	Yes		
Lightning Protection	Yes		
Read Inverter Data	Yes*		
Supported Communication	RS-485, RS-232, Ethernet, ZigBee (optional)		
STANDARD COMPLIANCE			
Emissions	IEC61000-6-2, IEC61000-6-3, IEC61000-3-11, IEC61000-3-12, FCC part15 class B		
Safety	IEC-62109, UL1741, C22.2 No. 107.1		
INSTALLATION SPECIFICATIONS			
Dimensions (HxWxD)	117.5 x 316 x 206.6 / 4.6 x 12.4 x 8.1		mm/in
Weight	3 / 6.6		kg/lb
Operating Temperature Range	-20° - +60° / -4 - +140		°C/°F
Protection Rating	IP65 / NEMA4		
Material	Polycarbonate		

* For a list of supported non-SolarEdge devices, please refer to: <http://www.solaredge.com/articles/se-supported-devices>



■ USA ■ Germany ■ Italy ■ France ■ Japan ■ China ■ Israel

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