Benefit from module-level monitoring & automatic safety in commercial and utility-scale installations

- Interface between SolarEdge power optimizers & non-SolarEdge inverters
- Module safety voltage for installer & firefighter safety
- Mobile & web-based module-level performance monitoring and fault detection
- Communication via RS232, RS485, Ethernet or ZigBee
- IP66 – Outdoor installation
### SolarEdge Safety & Monitoring Interface for Large Scale Installations  SMI-180

#### DC INPUT
- **Number of DC Inputs**: 1
- **Input Type**: PG29 x 2
- **Maximum Voltage**: 1000 VDC
- **Maximum Continuous Current**: 180 A
- **Lightning Protection**: Yes

#### DC OUTPUT
- **Number of DC Outputs**: 1
- **Output Type**: PG29 x 2
- **Maximum Voltage**: 1000 VDC
- **Maximum Continuous Current**: 180 A
- **Lightning Protection**: Yes

#### OPERATING POWER (EXTERNAL POWER SUPPLY)
- **Input Voltage**: 36 – 55 VDC
- **Nominal Power Consumption**: 12 W

#### STRING DESIGN
- **String Length**
  - For combiner boxes with <16 strings: 4 – 30 optimizers per string (module & inverter dependent)
  - For combiner boxes with 16-18 strings: 9 – 22 optimizers per string (module & inverter dependent)
- **Number of Input Strings (using the external combiner box)**
  - 4 – 18
- **Maximum Distance between Power Optimizers and the Combiner Box**: 150 m
- **Minimum Distance between the Combiner Box and the SMI-180**: 10 m
- **Maximum number of SMI-180 per inverter**: 14

#### ADDITIONAL FEATURES
- **Display**: LCD & LED for Full Status Review
- **Remote Monitoring**: Yes
- **Module Safety DC Voltage**: Yes
- **On-site Master Shutdown**: Yes
- **Supported Communication**: 2 x RS-485, RS-232, Ethernet, Zigbee (optional)

#### STANDARD COMPLIANCE
- **Emissions**: IEC61000-6-2, IEC61000-6-3, IEC61000-3-11, IEC61000-3-12
- **Safety**: IEC-62109

#### INSTALLATION SPECIFICATIONS
- **Dimensions (W x D x H)**: 12.5 x 8.4 x 21 / 317 x 214 x 552 in / mm
- **Weight**: 55 / 25 lb / kg
- **Operating Temperature Range**: -4 – +140 / -20 – +60 °F / °C
- **Protection Rating**: IP66
- **Relative Humidity**: 0 – 100 %
- **Input Wiring Gauge**: 35 – 105mm²
- **Output Wiring Gauge**: 35 – 105mm²
- **Storage Temperature Range**: -40 – +185 / -40 – 85 °F / °C
- **Storage Humidity Range**: 0 – 95 %

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