

O900-80V

RSD with Optimization

- Maximum efficiency to the inverter shade or no shade
- SunSpec RSD Certified for interoperability with compatible inverters.
- 2017 NEC 690.12 and 2020 NEC 690.12 Rapid Shutdown compliant

Rapid Shutdown Datasheet

Module-level rapid shutdown with PV Optimizer

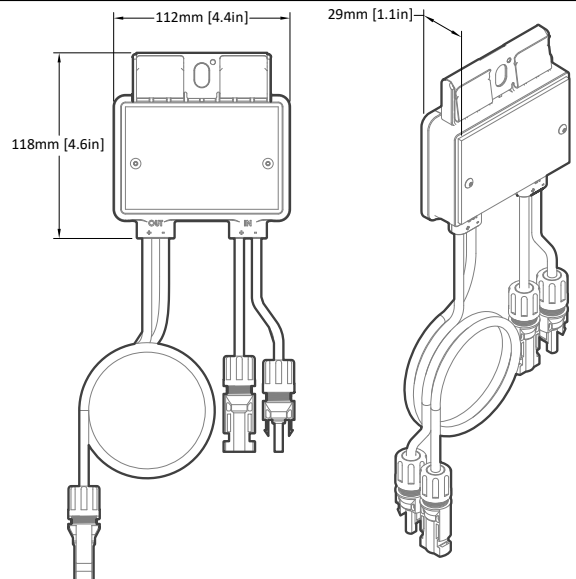
Sol-Ark O900-80V offers state-of-the-art PV module rapid shutdown device (RSD) and maximum power point tracking (MPPT) power optimization.

O900-80V can attach to every PV module and provide RSD (PV rapid shutdown) required by UL 1741 and NEC 690.12. It will compensate for shaded panel(s) to maintain peak output power.

When installed with and receiving a "permission to operate" signal from the TX 12K-A or TX 15K-A Transmitters, O900-80V starts proper operation of PV system.

O900-A Quick Specs

Model	O900-80V
Max Input Voltage	80V
Max Input Current	14A
Dimensions (W x L x H)	112 mm x 118 mm x 28 mm
Weight	620g
Max Wattage	900W



O900-80V Technical Data

MODEL

O900-80V

INPUT DATA (DC)

Input Operating Voltage Range	18-80V
Maximum Input Current (I _{max})	14A
Maximum Short Circuit Current (I _{sc})	15A
Maximum Power	900W

OUTPUT DATA (DC)

Output Operating Voltage Range	18-80V
Maximum System Voltage	1000V
Maximum Series Fuse Rating	30A
Safety Voltage (without heartbeat signal)	0.9V

MECHANICAL DATA

Operating Ambient Temperature Range	-40°F to + 176°F (-40°C to + 85°C)
Passthrough mode capacity	14A up to +65°C / 9A up to +85°C
Optimization mode capacity	14A up to +35°C / 6A up to +85°C
Dimensions W x L x H (without cable & connectors)	4.41" x 4.64" x 1.1" (112 mm x 118 mm x 28 mm)
Cable Length	Input 4.72", Output 39.37" (0.12m, 1m)
Cable Cross Section Size	UL: 12AWG
Connector	Friends PV5e (MC4 Compatible)
Enclosure Rating	NEMA Type 6P / IP68

FEATURES

Power Optimization	Yes (MPPT)
Communication Signal	Power Line Communication (PLC)**
Maximum number of PV modules per O900-80V MLPE	1
Over-Temperature Protection	Yes
Warranty	25 years

STANDARDS COMPLIANCE

Photovoltaic Rapid Shutdown System	NEC 2017 (690.12), NEC 2020 (690.12)
Safety Compliance	UL 1741, CSA 22.2 No. 107.1
EMC Compliance	FCC Part 15 Class B; IEC 61000-6-2; IEC 61000-6-3
Others	SunSpec RSD Certified

**SunSpec Transmitter Sol-Ark TX 12K-A/TX 15K-A is required for communication.

It pairs with Transmitter **TX 12K-A/TX 15K-A**



Module Frame Mounting Dimensions

