

MPO650/MPO850

Module PV Optimizer

By utilizing module-level power optimization technology, SOLARMAN module PV optimizer can recover the electricity loss caused by component mismatch, and increase the system power generation by 5% to 30%.

Additionally, SOLARMAN optimizer is equipped with rapid shutdown function compliant with safety regulations of various countries, ensuring fire safety and O&M security. Through module-level data monitoring, SOLARMAN optimizer realizes fine-tuned management, which is able to identify inefficient modules promptly.

I Applicable Scenarios

- Recover power generation caused by module mismatch, including orientation, shading, soiling, snow remnant, bifacial application, mixed assembly of battery panels or damage
- Compliant with safety regulations and realize rapid shutdown function
- Realize module-level data monitoring and fast troubleshooting

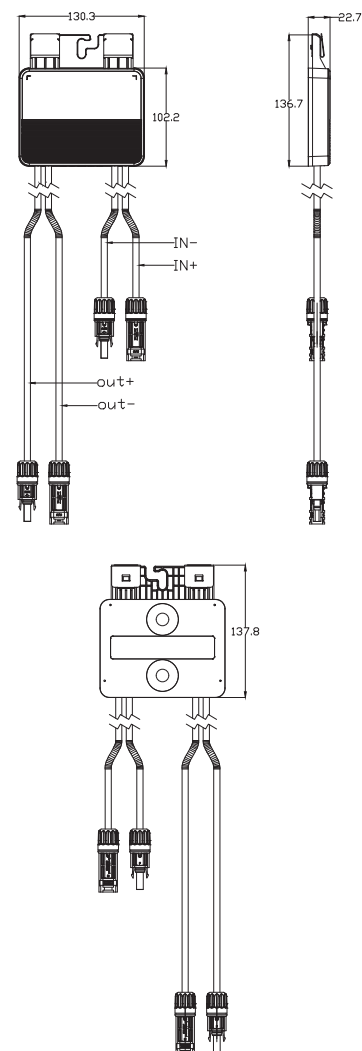
I Features

- Increase the system power generation by 5% to 30%
- One-click rapid shutdown, compliant with safety regulations worldwide
- Module-level data monitoring for fast troubleshooting
- Adopt automotive-grade chip with 30-year design life
- Easy to install, convenient debugging and configuration via APP
- Connect to partial or all modules according to actual situation
- Compatible with 99% of inverter brands

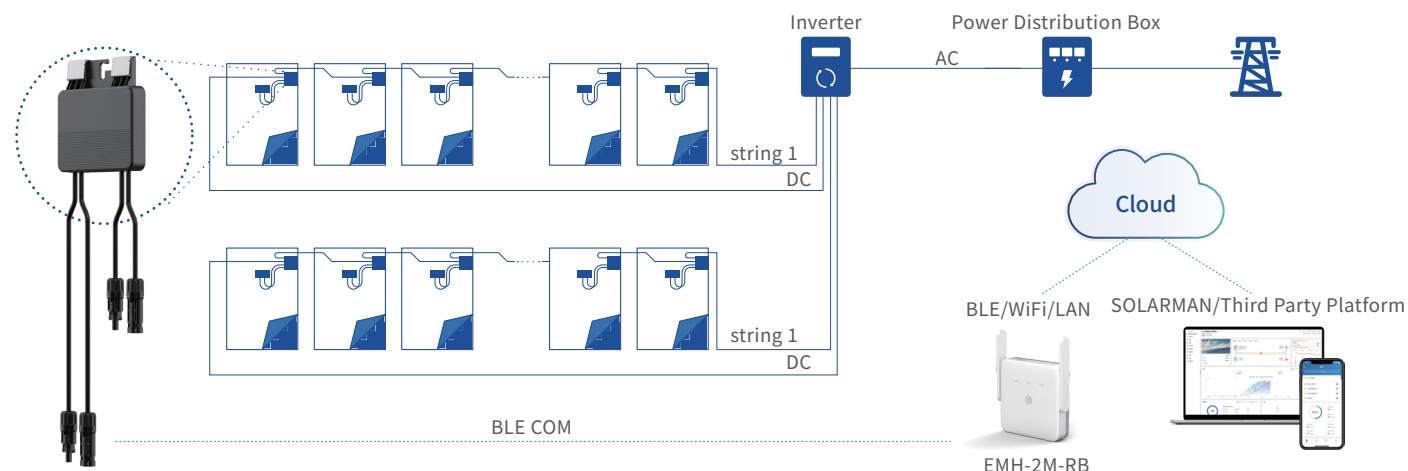


I Parameters

Model	MPO650	MPO850
Input Parameter		
Peak Conversion Efficiency	99.50%	99.50%
Rate Input Power	650Wp	850Wp
Max. Input Voltage	70V	70V
Max. Input Current	16A	20A
MPPT Voltage Range	10-70 V	10-70 V
Output Parameter		
Max. Output Power	650Wp	850Wp
Max. Output Voltage	65V	65V
Max. Output Current	16A	20A
COM Parameter		
Communication Type	BLE Mesh	BLE Mesh
Max. Distance	300m	300m
No. of Single Network Connection	300	300
Others		
Dimension (mm)	130.3*102.2*22.7	130.3*102.2*22.7
Weight (with cable-standard configuration)	711g	868g
Installation	Screw+Clip	Screw+Clip
Connector	NIU A4 max/QC/MC4	NIU A4 max/QC/MC4
Cable	4mm ² /10-12AWG	4mm ² /10-12AWG
Working Temperature	-40°C~+85°C	-40°C~+85°C
IP Grade	IP68	IP68
Certification Standard	CE/RoHs/REACH/TUV	CE/RoHs/REACH/TUV



I Solution



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