

Photovoltaic Panel Optimizer

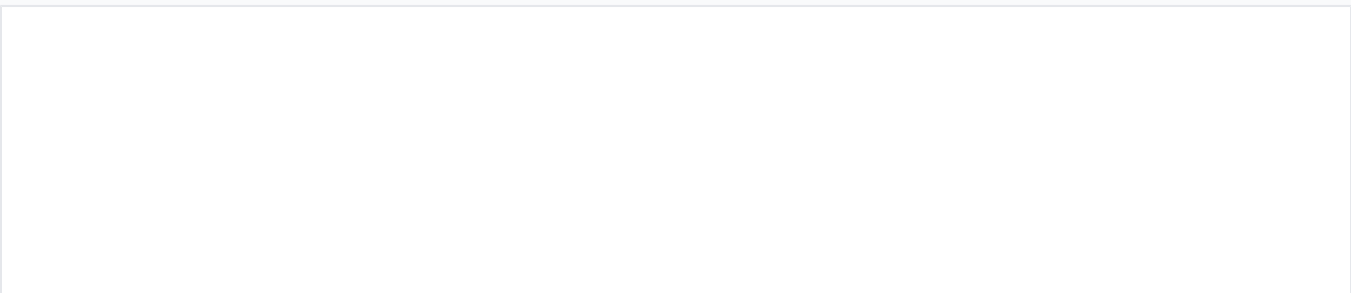
This device improves the efficiency of photovoltaic panels. It optimizes the output of each panel individually, improving overall system efficiency.



ADDITIONAL IMAGES



Overview

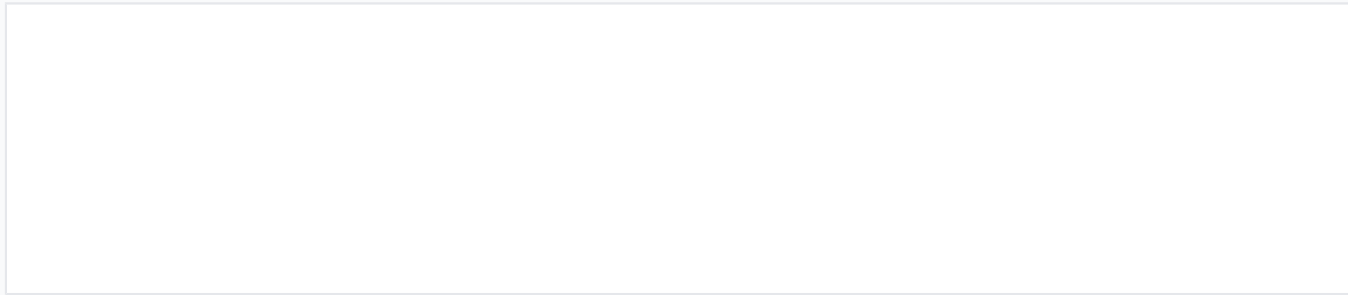


The optimizer integrates seamlessly into residential and commercial PV system architectures.

High-Efficiency Solar Optimizer

This module-level solar optimizer is engineered to significantly enhance the energy harvest of photovoltaic panels by 5-25%. By performing independent Maximum Power Point Tracking (MPPT), it effectively mitigates performance losses caused by shading, panel mismatch, or aging. Designed for a 25-year service life, it ensures reliable energy optimization for both new and existing solar power installations.

Performance



Technical diagram showing performance and operational data for the optimizer unit.

Efficiency Metrics

99.5 %

Max Efficiency

98.7 %

CEC Efficiency

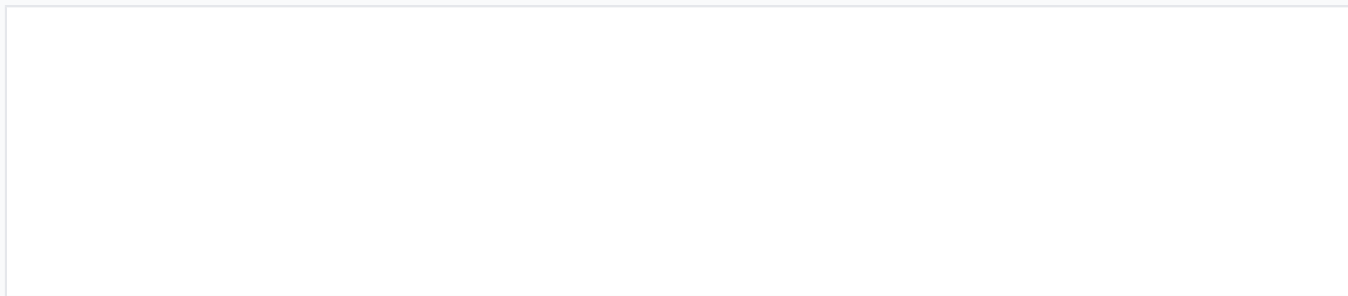
99.9 %

MPPT Efficiency

Electrical Input

Parameter	Value
Max Input Power	450W
Max Input Voltage	55V
MPPT Voltage Range	13-50V
Max Continuous Input Current	12A

Physical Properties



Secure packaging ensures product safety during global logistics and distribution.

Dimensions & Weight

- Dimensions: 103 x 105.3 x 21.3 mm
- Weight: 0.65 kg

Environmental Protection

IP67, NEMA6, Natural Cooling

Compliance

Certifications

CE • RoHS • UL1741 • UL3730 • FCC