

IPOWER OPTIMUS

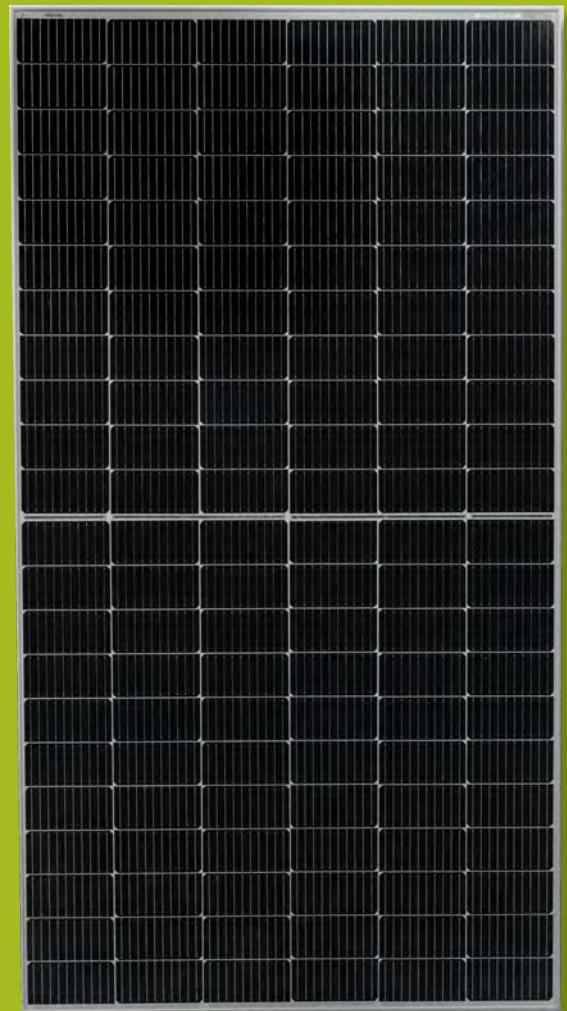
High-efficiency Mono PERC M10 solar PV modules

132 Cells

500-510W
output range

What Makes our Panels **ICONIC**

- 100% Pre and Post EL Checking to ensure micro crack free module
- Ensured PID resistance through cell Process and module material process
- 100% Hi-POT Testing to Ensure Safety
- Salt and Ammonia Resistant
- Mechanical performance Up to 5400 Pa Positive load and 2400 Pa negative load
- Ip68 Split Junction Box for Long Term Endurance



MANUFACTURING WARRANTY



PERFORMANCE WARRANTY



Excellent Module Efficiency



Superior temperature co-efficient & performance at NOCT



Anti-Reflective (AR) Coated Glass for Enhanced Power



High Reliability with Multi Busbar Technology



Excellent performance at low light irradiation



TECHNICAL DATASHEET

IPOWER OPTIMUS

Model No. : ISEN*** (***) = 500 -510)

Electrical Data - All data measured at STC*

Peak Power Watts-PMAX (Wp)	500	510
Max. Power Voltage-VMPP (V)	38.35	38.71
Max. Power Current-IMPP (A)	13.04	13.18
Open Circuit Voltage-VOC (V)	45.59	45.85
Short Circuit Current-ISC (A)	13.93	14.07
Module Efficiency η_m (%)	21.05	21.47

*STC: Irradiance 1000 W/m², Cell Temperature 25°C, Air Mass AM 1.5.

Electrical Data - at NOCT**

Peak Power Watts-PMAX (Wp)	376	384
Max. Power Voltage-VMPP (V)	35.80	36.13
Max. Power Current-IMPP (A)	10.51	10.62
Open Circuit Voltage-VOC (V)	42.55	42.80
Short Circuit Current-Isc (A)	21.05	21.47

**NOCT: Irradiance 800W/m², Ambient Temperature 20°C, Wind Speed 1m/s.

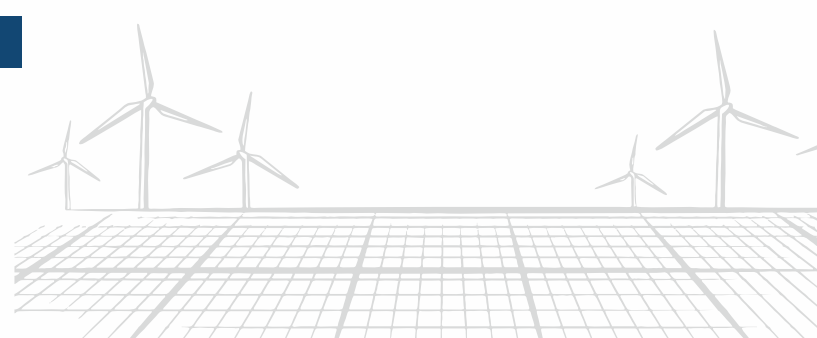
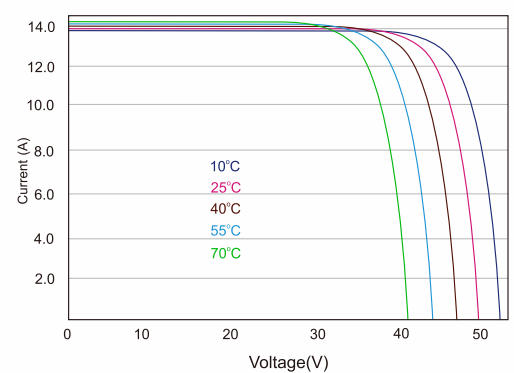
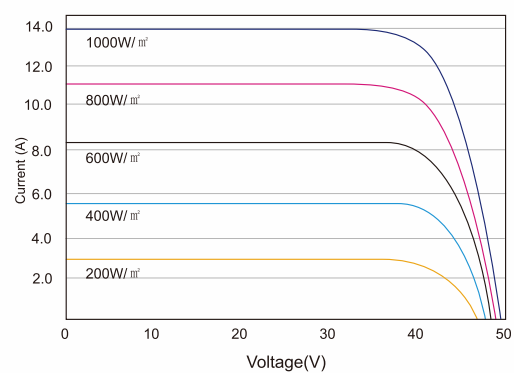
Temperature Co-efficient (Tc)

Temperature Co-efficient for Isc %/°C (α)	0.0289
Temperature Co-efficient for Voc %/°C (β)	-0.208
Temperature Co-efficient for power %/°C (γ)	-0.23
NOCT	45°C ± 2°C

Maximum Rating

Fuse Rating	25 Amps
System Voltage	1500 VDC
Operating Conditions	-40°C to +85°C & 85% RH
Max. Design Load	5400 Pa

IV Curves



PRODUCT CERTIFICATION

