

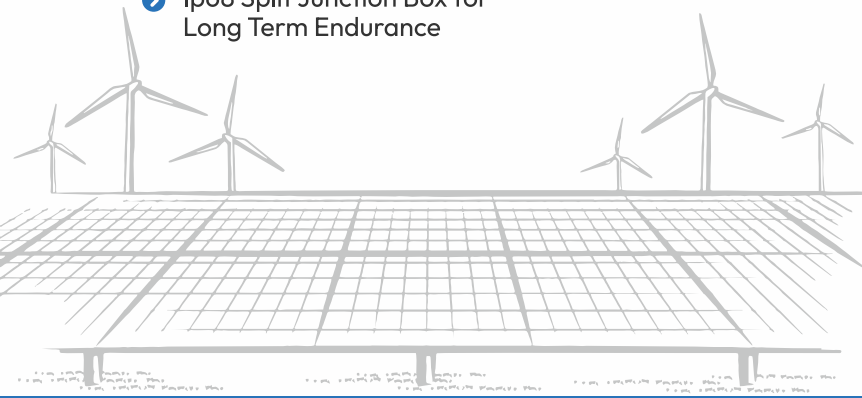
IPOWER DYNAMO

High-efficiency Mono PERC solar PV modules

120 Cells
420-460W
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



12
YEARS
MANUFACTURING WARRANTY


27
YEARS
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 DYNAMO

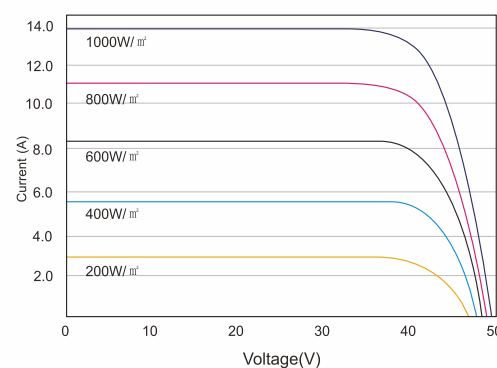
(Model No.: ISEN*** (***) = 420-460)

Electrical Data - All data measured at STC*

Peak Power Watts-PMAX (WP)	420	425	430	435	440	445	450	455	460
Max. Power Voltage-VMPP (V)	33.42	33.46	33.51	33.61	33.72	33.84	33.95	34.06	34.18
Max. Power Current-IMPP (A)	12.57	12.71	12.84	12.95	13.05	13.16	13.26	13.36	13.47
Open Circuit Voltage-Voc (V)	40.71	40.75	40.79	40.91	41.02	41.10	41.18	41.33	41.48
Short Circuit Current-Isc (A)	13.42	13.46	13.51	13.69	13.73	13.79	13.85	13.93	14.01
Module Efficiency nm (%)	19.41	19.64	19.87	20.10	20.34	20.57	20.80	21.03	21.26

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

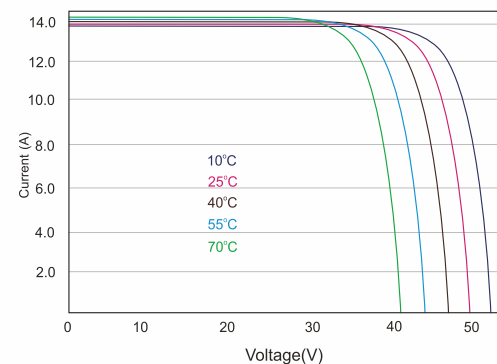
IV Curves



Electrical Data - at NOCT**

Peak Power Watts-PMAX (WP)	316	320	324	327	331	335	339	342	346
Max. Power Voltage-VMPP (V)	31.59	31.19	31.23	31.28	31.37	31.47	31.69	31.79	31.90
Max. Power Current-IMPP (A)	10.13	10.24	10.35	10.44	10.52	10.60	10.68	10.77	10.85
Open Circuit Voltage-Voc (V)	38.00	38.04	38.07	38.19	38.29	38.36	38.44	38.58	38.72
Short Circuit Current-Isc (A)	10.81	10.85	10.89	10.97	11.06	11.11	11.16	11.22	11.29
Module Efficiency nm (%)	19.41	19.64	19.87	20.10	20.34	20.57	20.80	21.03	21.26

**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

PRODUCT CERTIFICATION

