

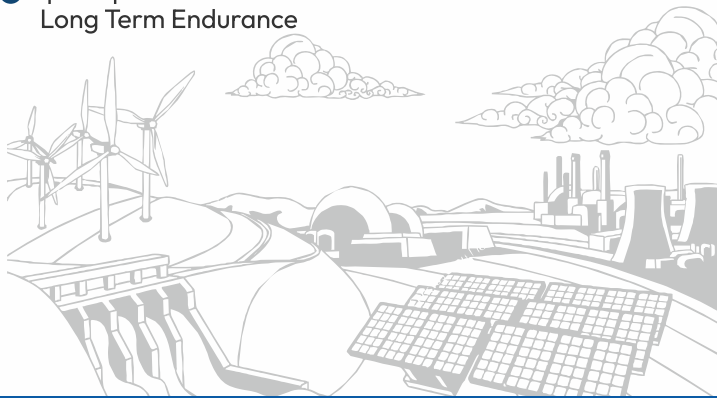
# IPOWER SUPREMO

High-efficiency Mono PERC M10 solar PV modules

**144 Cells**  
**520-555W**  
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 SUPREMO

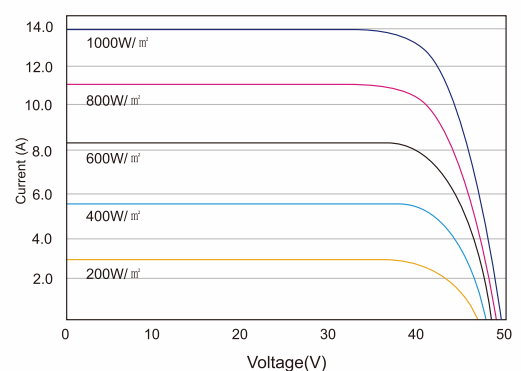
Model No. : ISEN\*\*\* (\*\*\*) = 520 -555)

### Electrical Data - All data measured at STC\*

Peak Power Watts-PMAX (Wp)	520	525	530	535	540	545	550	555
Max. Power Voltage-VMPP (V)	41.00	41.15	41.31	41.47	41.64	41.80	41.96	42.12
Max. Power Current-IMPP (A)	12.69	12.76	12.83	12.91	12.97	13.04	13.11	13.18
Open Circuit Voltage-VOC (V)	49.00	49.15	49.30	49.45	49.60	49.75	49.90	50.05
Short Circuit Current-ISC (A)	13.58	13.65	13.72	13.79	13.86	13.93	13.96	14.07
Module Efficiency $\eta_m$ (%)	20.12	20.32	20.40	20.60	20.90	21.10	21.20	21.48

\*STC: Irradiance 1000 W/m<sup>2</sup>, Cell Temperature 25°C, Air Mass AM 1.5.

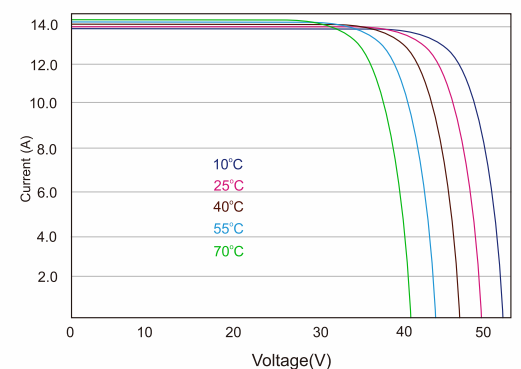
### IV Curves



### Electrical Data - at NOCT\*\*

Peak Power Watts-PMAX (Wp)	391	395	399	403	406	410	414	418
Max. Power Voltage-VMPP (V)	38.27	38.41	38.56	38.71	38.87	39.02	39.17	39.31
Max. Power Current-IMPP (A)	10.23	10.28	10.34	10.40	10.45	10.51	10.56	10.62
Open Circuit Voltage-VOC (V)	45.74	45.88	46.02	46.16	46.30	46.44	46.58	46.72
Short Circuit Current-ISC (A)	10.94	11.00	11.06	11.11	11.17	11.22	11.25	11.34
Module Efficiency $\eta_m$ (%)	20.12	20.32	20.40	20.60	20.90	21.10	21.20	21.48

\*\*NOCT: Irradiance 800W/m<sup>2</sup>, Ambient Temperature 20°C, Wind Speed 1m/s.



### Temperature Co-efficient (Tc)

Temperature Co-efficient for Isc %/°C ( $\alpha$ )	0.0289
Temperature Co-efficient for Voc %/°C ( $\beta$ )	-0.208
Temperature Co-efficient for power %/°C ( $\gamma$ )	-0.23
NOCT	45°C $\pm$ 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

