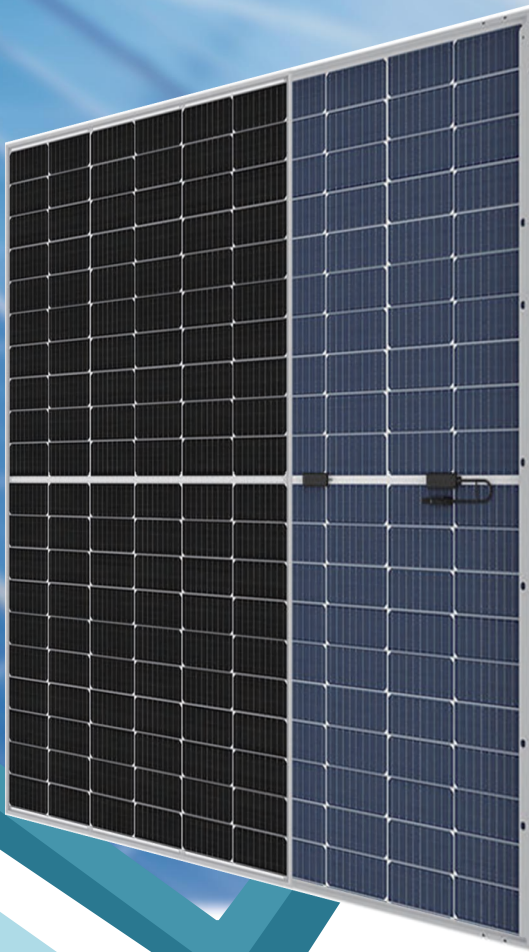




SpolarPV
Easy Invest, More Returns



21.57 %

Module efficiency

465 W

Highest power output



Product warranty



Linear power warranty

SPV465-PM10-120BD

445-465Watt



High Efficiency

Higher power conversion efficiency benefited from advanced Passivated Emitter and Rear Cell (PERC) technology.



Anti-reflection

Less than 20% reflectivity with minimum glare.



Good Mechanical Load Performance

Certified to withstand: wind load (2400 Pa), snow load and hail strike(5400 Pa) .



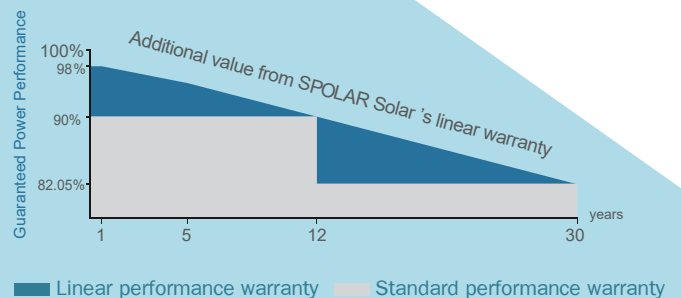
Low Light Performance Resilience

Advanced glass and cell surface texture designs ensure excellent performance in low light environment.



Durability Against Extreme Environmental Conditions

Good performance of Anti-PID, Ammonia and Salt mist certified by 2 PfG 2387/01.18, IEC61716 and IEC61701.



ISO9001:2016 ISO14001:2016
OHSAS18001:2011 certified factory.
IEC61215 IEC61730 certified products.

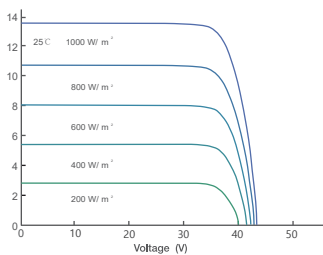
Electrical Characteristics at Standard Test Conditions (STC)

Module Type	SPV445-PM10-120BD	SPV450-PM10-120BD	SPV455-PM10-120BD	SPV460-PM10-120BD	SPV465-PM10-120BD
Maximum Power - Pmax (W)	445	450	455	460	465
Maximum Power Voltage - Vmp (V)	34.86	35.12	35.37	35.61	35.82
Maximum Power Current - Imp (A)	12.77	12.82	12.87	12.91	12.98
Open-circuit Voltage - Voc (V)	41.66	41.98	42.29	42.60	42.90
Short-circuit Current - Isc (A)	13.52	13.57	13.62	13.67	13.71
Module Efficiency STC (%)	20.65 %	20.88 %	21.11 %	21.35 %	21.57 %

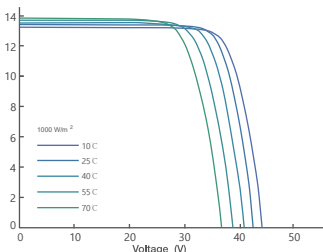
Electrical Characteristics at Normal Operating Cell Temperature (NOCT)

Module Type	SPV445-PM10-120BD	SPV450-PM10-120BD	SPV455-PM10-120BD	SPV460-PM10-120BD	SPV465-PM10-120BD
Maximum Power - Pmax (W)	335	338	342	345	349
Maximum Power Voltage - Vmp (V)	32.82	33.01	33.21	33.39	33.67
Maximum Power Current - Imp (A)	10.20	10.24	10.29	10.34	10.36
Open-circuit Voltage - Voc (V)	39.01	39.21	39.42	39.59	39.94
Short-circuit Current - Isc (A)	10.82	10.85	10.89	10.96	11.02
Power Tolerance	0 ~ +3W		Operating Temperature (°C)		-40 °C ~ +85 °C
Temperature Coefficients of Pmax	-0.35% / °C		Maximum System Voltage		1500 V
Temperature Coefficients of Voc	-0.275% / °C		Maximum Series Fuse Rating		25 A
Temperature Coefficients of Isc	0.045% / °C		Nominal Operating Cell Temperature		45 ± 2 °C

Current-Voltage Curve under different irradiance

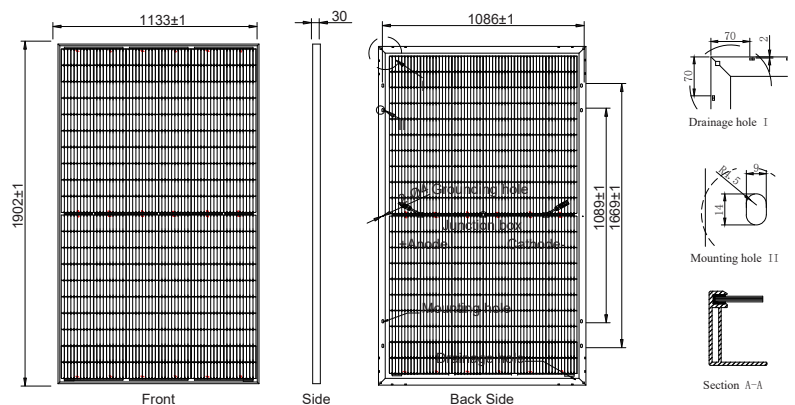


Current-Voltage Curve under different working temperatures



Mechanical Characteristics

Cell Type	Mono-crystalline PERC 182x91 mm
No. of Cells	120 (6x20)
Dimensions	1902x1133x30 mm
Weight	25.5 kg
Glass	Dual Glass 2.0mm Heat Strengthened Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68, MC4 Compatible, 3 Bypass Diode
Output Cables	1x4.0 mm ² , Length: 300 mm or Customized Length
Packaging Configuration	72pcs/stack,864pcs/40'HQContainer (Two pallets=One stack)



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