



Sun Pacific Power

Mono Full-Black Module

440W/445W/450W/455W/460W



Highest power output



Easy Installation and Handling for Various Application



Heavy snow load up to 5400 Pa,
wind load up to 2400 Pa



Conforms with IEC 61215, IEC 61730, UL 61730

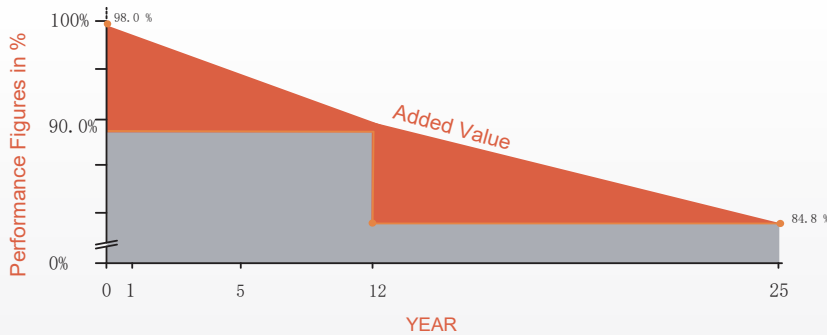
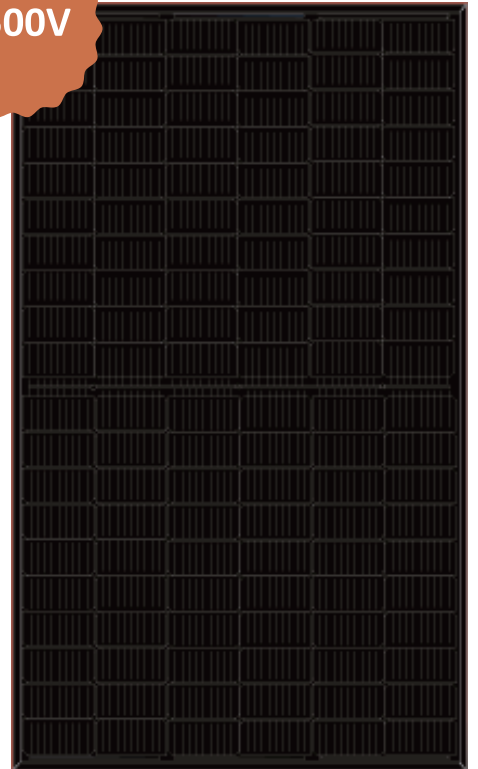


ISO9001, ISO14001, ISO45001



Application Class A, Safety Class II, Fire Type 1

1500V



12-year
material & workmanship

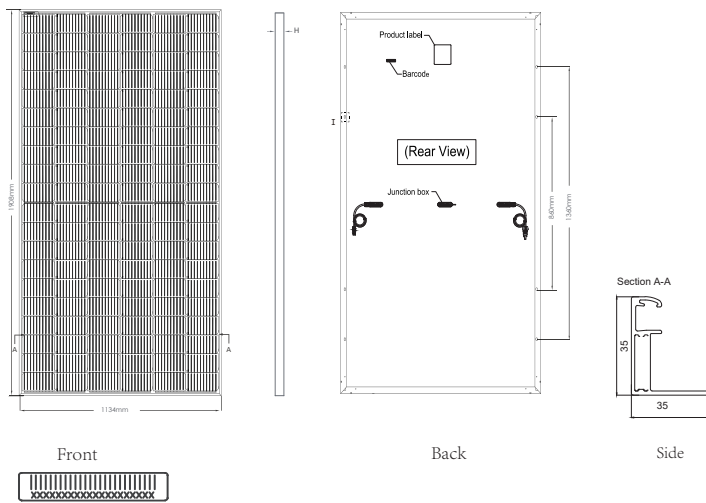
25-year
linear power output



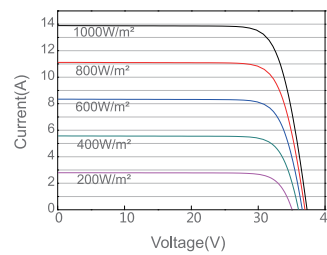
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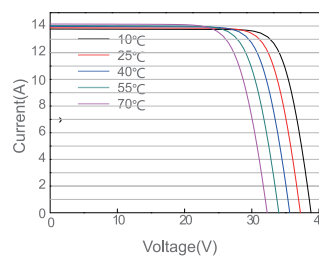
Dimension



I-V Curves



Current-Voltage Curve
SPP120H-450MB



Current-Voltage Curve
SPP120H-450MB

Electrical Characteristics

	440	445	450	455	460
Maximum Power (Pmax)[W]	440	445	450	455	460
Maximum Power Voltage (Vmp)[V]	33.72	33.82	33.91	34.06	34.20
Maximum Power Current (Imp)[A]	13.05	13.16	13.27	13.36	13.45
Open Circuit Voltage (Voc)[V]	41.02	41.10	41.18	41.33	41.48
Short Circuit Current (Isc)[A]	13.73	13.79	13.85	13.93	14.01
Module Efficiency[%]	20.34	20.57	20.80	21.03	21.26
Power Tolerance	0/+5W				
STC	Irradiance of 1000W/m ² , AM1.5, cell Temperature 25°C				

*Remark: Electrical data in this catalog do not refer to a single module and they are not part of the offer. They only serve for comparison among different module types.

Electrical Characteristics

	SPP120H-440MB	SPP120H-445MB	SPP120H-450MB	SPP120H-455MB	SPP120H-460MB
Maximum Power (Pmax)[W]	327	331	335	339	342
Maximum Power Voltage (Vmp)[V]	31.39	31.56	31.79	31.91	32.07
Maximum Power Current (Imp)[A]	10.43	10.49	10.55	10.61	10.67
Open Circuit Voltage (Voc)[V]	38.72	38.79	38.87	39.01	39.15
Short Circuit Current (Isc)[A]	11.09	11.14	11.19	11.25	11.32
NOCT	Irradiance of 800W/m ² , AM1.5, Ambient Temperature 20°C, Wind Speed 1m/s.				

*For NexTracker installations static loading performance: front load measures 5400Pa, while back load measures 2400Pa.

Mechanical Characteristics

Cell Type	Mono perc, 182mm-half cells, 120(6x10+6x10)
Weight	24.2kg
Dimension	1908(±2mm) x 1134(±2mm) x 35(±1mm)
Superstructure	High Transmission, Low Iron & Semi-Tempered Glass (3.2 mm)
Frame & Installation	Anodized aluminum profile
Junction box	300 mm in length or customized length
Connector	Compatible with MC4

Characteristics

Temperature Coefficient of Voc	-0.275%/°C
Temperature Coefficient of Isc	+0.045%/°C
Temperature Coefficient of Pmax	-0.350%/°C
Nominal Operating cell Temperature(NOCT)	42°C±2°C
Fire performance	UL Type1

Packing Information

Container	20' GP	40' HC
Pallets per Container	6	24
Pieces per Container	186	744

Maximum Ratings

Operating Temperature	-40°C~+85°
Maximum System Voltage	1500VDC (EU)
Maximum Series Fuse Rating	25A (EU)

