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EnergyPal

Solar Panel Guide Specification Data Sheet

**Cell Solar Energy Co., Limited
PERC Mono320W-380W Half Cut 120cells
CSM320-120**

Also available on the web at
EnergyPal.com/cell-solar-energy-co-limited-solar-panels/csm320-120

MONOCRYSTALLINE 120 CELLS

CSM320-350 WATT

The advantages:

5BB PERC solar Cell

More busbars,the less of broken and cracking,as the narrowed cell bus bar width,the light receiving area and power are increased too

1500V System Voltage

1500V system voltage design compatible to 1000V/1500V and Reduce BOS cost greatly.

Low-Light Performance

Excellent performance in low-light environments (e.g. early morning, dusk, and cloud, etc.)

Positive Tolerance

Guaranteed Positive Tolerance up tp 5W

Withstand challenging environmental conditions

2400 Pa negative load
5400 Pa positive load
2400/5400 is the measured load,and the safety factor is 1.5 times

PID-Resistant

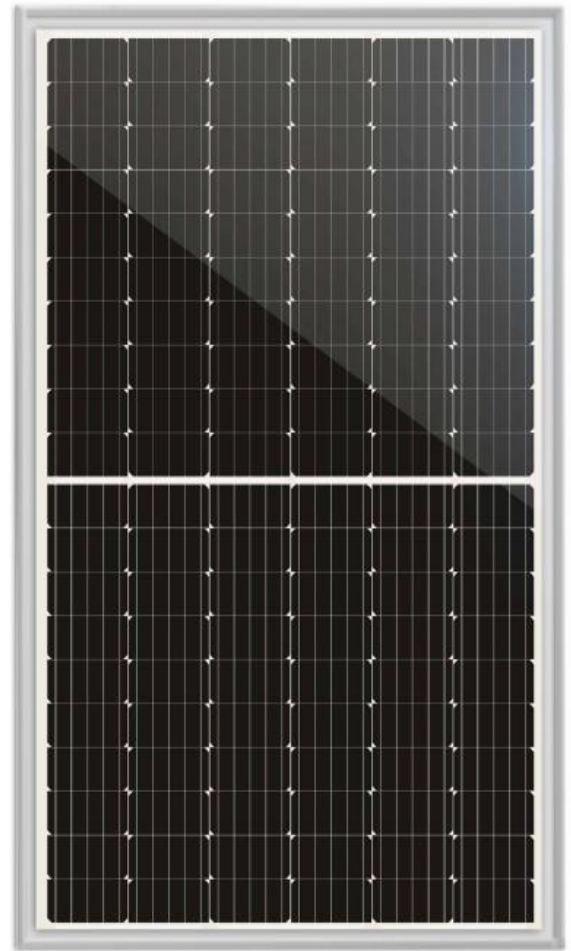
Anti-PID-Technology

Salt-resistant & Ammonia-Resistant

Passed salt mist & ammonia corrosion,
blowing sand and hail testing

100% electroluminescence inspection

15 years manufacturer's warranty

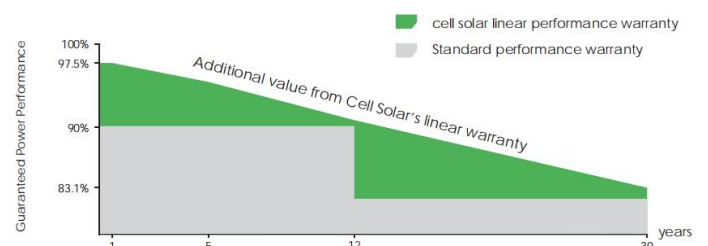


- ISO9001:2015 Quality Standards
- ISO14001:2015 Environmental Standards
- OHSAS18001 Occupational Health & Safety Standards
- IEC61215,IEC61730 certified products
- UL1703 cedified products



LINEAR PERFORMANCE WARRANTY

15 Year Product Warranty • 30 Year Linear Power



MONOCRYSTALLINE 120 CELLS

Model—CSM320-350	CSM320-120	CSM330-120	CSM340-120	CSM350-120
Nominal output P _{mp}	320Wp	330Wp	340Wp	350Wp
Nominal voltage V _{mp}	33.69V	34.10V	34.12V	35.16V
Nominal current I _{mp}	9.55A	9.68A	9.83A	9.98A
Short circuit current I _{sc}	9.98A	10.06A	10.16A	10.96A
Open circuit voltage V _{oc}	40.72V	41.03V	41.34V	41.65V
Module efficiency	19.20%	19.50%	20.45%	21.00%

Electrical characteristics (at Standard Test Conditions (STC) STC:Irradiance 1000W/m , Cell temperature 25°C , AM1.5

MECHANICAL DATA

Solar Cells	5BB Monocrystalline PERC SOLAR CELL		
Cell Orientation	120 cells (6×20)		
Module Dimensions	1675×992×35mm		
Weight	18.68 kg		
Glass	3.2 mm (0.13 inches),High Transmission,AR Coated Heat Strengthened Glass		
Encapsulant Material	EVA (Ethylene-Vinyl-Acetate)		
Backsheet	White Composite film		
Frame	35 mm(1.38 inches)Anodized Aluminium Alloy		
J-Box	IP 68 rated		
Cables	Photovoltaic Technology Cable 4.0mm ² (0.006 inches ²), 900mm/1200mm(Customized Available)		
Connector	MC4 /TS4 Compatible with MC4	MAXIMUM RATINGS	
TEMPERATURE RATINGS		Operational Temperature	-40~+85°C
NMOT(Nominal Moudule Operating Temperature)	41°C (±3°C)	Maximum System Voltage	1500V DC(IEC)
Temperature Coefficient of P _{MAX}	-0.37%/°C		1500V DC(DL)
Temperature Coefficient of V _{OC}	-0.29%/°C	Max Series Fuse Rating	20A
Temperature Coefficient of I _{SC}	0.05%/°C		

