

30 years
POWER WARRANTY

Up to 20 years
PRODUCT WARRANTY

470-490W

Mono BIFACIAL DG

120 Half-Cell Layout

N-TOPCon Cell

N

N-TOPCon Cell Technology

SMBB Half Cut Cell Technology

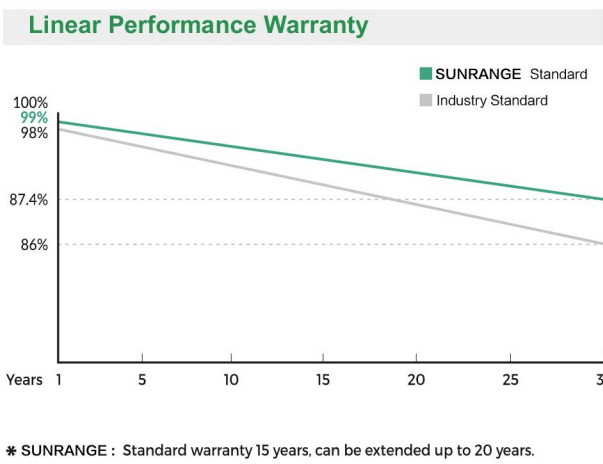
Bifacial Cell Module Technologies

Excellent Anti-PID LoW LID Performance

Less Hot Spot Shading Effects

Higher Power Output Lower BOS & LCOE

TRANSPARENT / WHITE



Insured By

Comprehensive Certificates

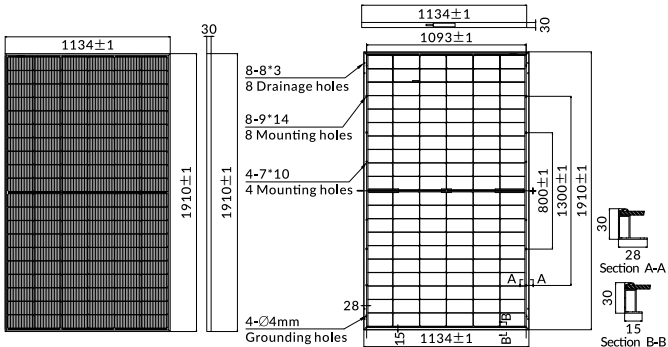
- ♦ ISO9001:2015 QMS
- ♦ ISO14001:2015 EMS
- ♦ ISO45001:2018 OHSMS
- ♦ IEC61215/IEC61730 Standard Quality
- ♦ IEC61701/IEC62716 Salt/Mist/Ammonia Tests

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Mono I 470-490W BIFACIAL DG

MECHANICAL CHARACTERISTICS

Solar Cells	N-type Mono
No. of Cells	120 (6x20)
Dimensions	1910 x 1134 x 30mm
Weight	26.0kg
Front Glass	2.0mm coated semi-tempered glass
Back Glass	2.0mm semi-tempered glass
Junction Box	Ip68 rated (3 by pass diodes)
	4.0mm ²
Output Cables	300mm (+) / 300mm (-)
	Length can be customized
Connectors	Mc4 compatible
Mechanical load test	5400Pa



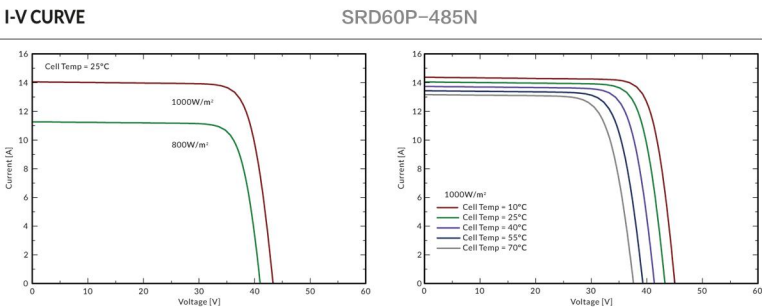
ELECTRICAL PARAMETERS

POWER CLASS	SRD60P-470N		SRD60P-475N		SRD60P-480N		SRD60P-485N		SRD60P-490N	
	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum power (Pmax)	470W	353W	475W	357W	480W	361W	485W	365W	490W	369W
Open Circuit Voltage (Voc)	42.94V	40.92V	43.15V	41.10V	43.36V	41.28V	43.57V	41.46V	43.78V	41.63V
Short Circuit Current (Isc)	14.02A	11.29A	14.09A	11.35A	14.16A	11.41A	14.23A	11.47A	14.30A	11.53A
Voltage at Maximum power (Vmpp)	35.31V	32.75V	35.50V	32.93V	35.69V	33.12V	35.87V	33.30V	36.06V	33.48V
Current Maximum Power (Impp)	13.31A	10.78A	13.38A	10.84A	13.45A	10.90A	13.52A	10.96A	13.59A	11.02A
MODULE EFFICIENCY (%)	21.70%		21.93%		22.16%		22.39%		22.62%	

STC: Irradiance 1000W/m², cell temperature 25°C, AM1.5G NMOT: Irradiance 800W/m², ambient temperature 20°C, wind speed 1m/s, AM1.5G

BIFACIAL OUTPUT-REARSIDE POWER GAIN		SRD60P-470N		SRD60P-475N		SRD60P-480N		SRD60P-485N		SRD60P-490N	
5%	Maximum power (Pmax)	494W		499W		504W		509W		515W	
	Module Efficiency STC (%)	22.78%		23.03%		23.27%		23.51%		23.75%	
15%	Maximum power (Pmax)	541W		546W		552W		558W		564W	
	Module Efficiency STC (%)	24.95%		25.22%		25.49%		25.75%		26.02%	
25%	Maximum Power (Pmax)	588W		594W		600W		606W		613W	
	Module Efficiency STC (%)	27.12%		27.41%		27.70%		27.99%		28.28%	

PACKING CONFIGURATION		
Container	20'GP	40'HQ
Pieces per pallet	36	36
Pallets per container	6	24
Pieces per container	216	864



OPERATING CHARACTERISTICS TEMPERATURE CHARACTERISTICS

Operating Module Temperature	-40°C to +85°C	Nominal Operating Temperature (NMOT)	45±2°C
Maximum System Voltage	1500 DC (IEC)	Temperature Coefficient of Pmax	-0.29%/°C
Maximum Series Fuse Rating	30A	Temperature Coefficient of Voc	-0.25%/°C
Power Tolerance	0/+5W	Temperature Coefficient of Isc	+0.045%/°C

Note: The specifications, data and technical characteristics provided in this data sheet are subject to changes due to continuous R&D, product innovation and improvement. SUNRANGE reserves the right to modify the information any time without prior notice.