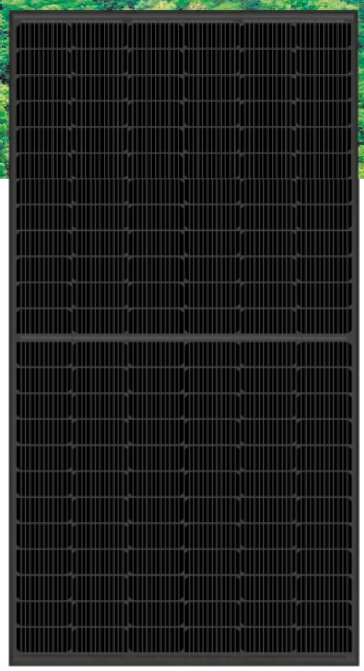


FLAGSUN®

440-460W Topcon BIFACIAL DG

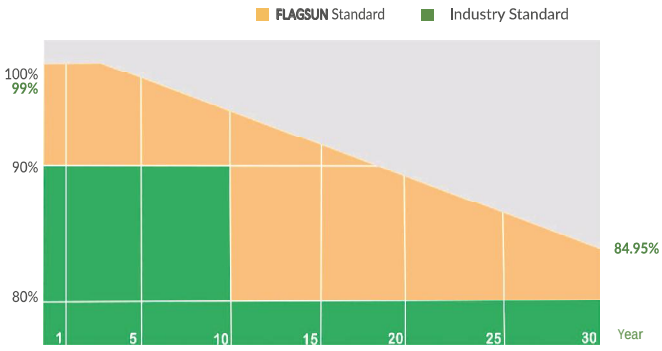
Half-Cell Layout

M10/182mm Topcon Cell



- 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

Linear performance Warranty



Comprehensive Certificates

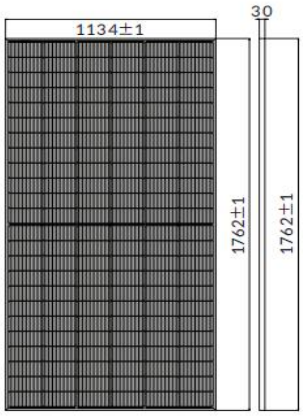
- ISO14001:2015 EMS
- SA8000:2014 SMS
- ISO9001:2015 QMS
- IEC61215/IEC61730 Standard Quality

Flagsun (Suzhou) New Energy Co., Ltd.
Manufacturer: No. 119 Yanshan West Road, Chengxiang Town, Taicang China,
Suzhou,Jiangsu, China
T: 0086-512-53724676 I info@flagsun.com I www.flagsun.com

FLAGSUN® Topcon I 440-460 BIFACIAL DG

MECHANICAL CHARACTERISTICS

Solar Cells	Topcon 182mm
No. of Cells	144 (6x24)
Dimensions	1762 x 1134 x 30(35)mm
Weight	24.0kg
Front Glass	2.0mm coated semi-tempered glass
Back Glass	2.0mm semi-tempered glass
Junction Box	Ip68 rated (3 by pass diodes)
Output Cables	4.0mm^2
	900mm (+) / 900mm (-) or customized
Frame Size	30/35mm
Connectors	Mc4 compatible
Mechanical load test	5400Pa



ELECTRICAL PARAMETERS

POWER CLASS	FSMH120-440-M10	FSMH120-445-M10	FSMH120-450-M10	FSMH120-455-M10	FSMH120-460-M10
	STC	STC	STC	STC	STC
Maximum power (Pmax)	440W	445W	450W	455W	460W
Open Circuit Voltage (Voc)	50.97V	51.12V	51.41V	51.55V	51.84V
Short Circuit Current (Isc)	11.28A	11.37A	11.44A	11.53A	11.59A
Voltage at Maximum power (Vmpp)	43.49V	43.85V	44.28V	44.56V	44.65V
Current Maximum Power (Impp)	10.11A	10.15A	10.16A	10.21A	10.30A
MODULE EFFICIENCY (%)	22.0%	22.2%	22.5%	22.77%	23.0%

STC: Irradiance 1000W/m^2, cell temperature 25°C, AM1.5G

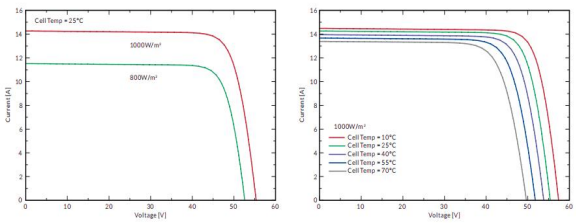
BIFACIAL OUTPUT-REARSIDE POWER GAIN

5%	Maximum power (Pmax)	460W	468W	473W	478W	483W
	Module Efficiency STC (%)	23.0%	23.4%	23.60%	23.9%	24.1%
15%	Maximum power (Pmax)	506W	512W	518W	523W	529W
	Module Efficiency STC (%)	25.3%	25.6%	25.9%	26.2%	26.5%
25%	Maximum Power (Pmax)	550W	557W	563W	569W	575W
	Module Efficiency STC (%)	27.5%	27.8%	28.2%	28.4%	28.7%

PACKING CONFIGURATION

Container	40'HC
Pieces per pallet	36
Pallets per container	26
Pieces per container	936

I-V CURVE FSMH120-460-M10/I-V



OPERATING CHARACTERISTICS

Operating Module Temperature	-40°C to +85°C
Maximun System Voltage	1500 DC (IEC)
Maximun Series Fuse Rating	25A
Power Tolerance	0/+5W

TEMPERATURE CHARACTERISTICS

Nominal Operating Temperature (NMOT)	45±2°C
Temperature Coefficient of Pmax	-0.29%°C
Temperature Coefficient of Voc	-0.25%°C
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. FLAGSUN SOLAR reserves the right to modify the information any time without prior notice.