



Half Cell Mono PERC

SK-DH144P 435W ~ 455W



High Efficiency

Module efficiency leading in industry, up to 20.6%



High Reliability

Passed 3*IEC standard test



Low Hot-spot Risk

1/2 current, reducing the hot spot temperature



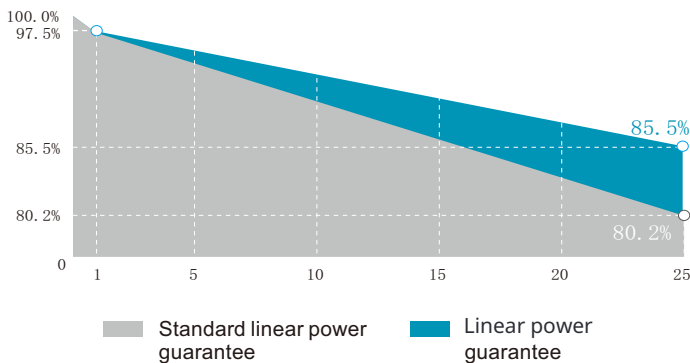
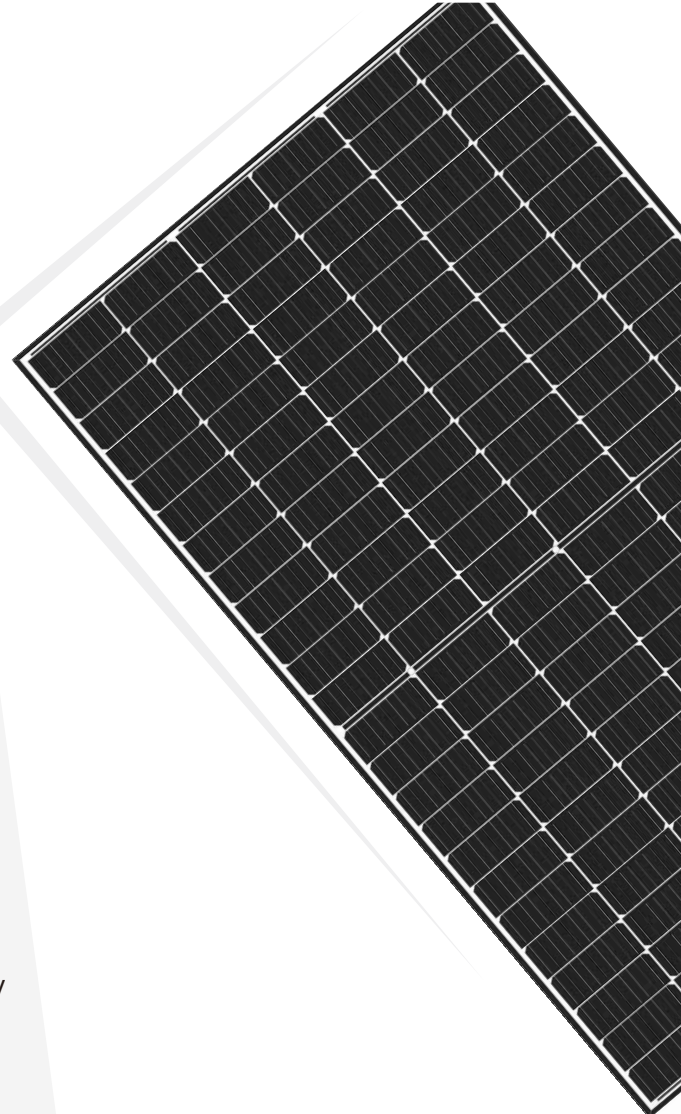
Low NMOT

As low as 43°C , improving the power generation efficiency



Half Cell, MBB Technology

Series-then-parallel cell connection design, more reliable soldering technology



Product And Quality Certifications

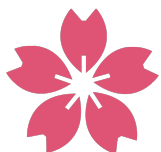
- IEC 61215, IEC 61730
- ISO 9001: 2015 Quality Management System
- IEC 62716, IEC 61701: Ammonia, Salt mist corrosion test
- IEC TS 62804-1, IEC 60068-2-68: PID test, Dust and Sand test
- IEC TS 62941: 2016 Terrestrial photovoltaic (PV) modules. Guideline for increased confidence in PV module design qualification and type approval

-2.50%
First year power degradation

-0.50%
Annual degradation

12 YEAR
Materials and workmanship warranty

25 YEAR
Linear power warranty



SAKURA SOLAR
JSF CORPORATION (PVT) LTD

Headquater: No 29/14, Vishaka Private Road, Colombo 04, Sri Lanka
 Factory Address: Katunayaka Export and Processing Zone - Lot 25B, Phase 1, Katunayaka, Sri Lanka
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Electrical Parameters (STC*)

Module Type	SK-144P-455	SK-144P-450	SK-144P-445	SK-144P-440	SK-144P-435
Nominal Max. Power(Pmax/W)	455	450	445	440	435
Open Circuit Voltage(Voc/V)	49.53	49.33	49.13	48.95	48.72
Short Circuit Current(Isc/A)	11.47	11.41	11.35	11.29	11.23
Operating Voltage(Vmp/V)	41.22	41.03	40.83	40.63	40.43
Operating Current(Imp/A)	11.04	10.97	10.90	10.83	10.76
Module Efficiency(%)	20.6	20.4	20.1	19.9	19.7

STC*(Standard Test Condition): Irradiance 1000W/m², Cell Temperature 25°C, AM1.5

Electrical Parameters (NMOT*)

Module Type	SK144P-455	SK144P-450	SK144P-445	SK144P-440	SK144P-435
Nominal Max. Power(Pmax/W)	334	331	327	323	320
Open Circuit Voltage(Voc/V)	45.82	45.63	45.45	45.28	45.07
Short Circuit Current(Isc/A)	9.24	9.20	9.15	9.01	9.05
Operating Voltage(Vmp/V)	37.83	37.70	37.50	37.30	37.17
Operating Current(Imp/A)	8.83	8.78	8.72	8.66	8.61

NMOT* (Nominal Module Operating Temperature): Irradiance 800W/m², Ambient Temperature 20°C, AM1.5, Wind Speed 1m/s

Mechanical Parameters

Cell size	Mono PERC 166mm*83mm
Module size	2108*1048*40mm (L x W x H)
Glass Thickness	3.2mm
Module Weight	24.3Kg
Output Cable	4mm ² , cable length 300mm (can be customized)
Connector	MC4 compatible
J-Box	IP68, 3 bypass diodes
Frame	Anodized aluminium alloy

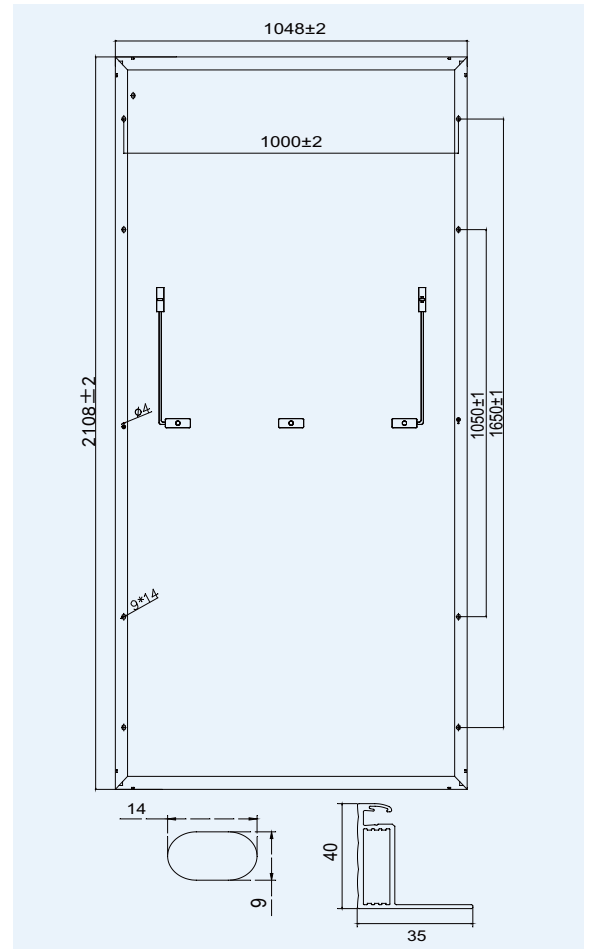
Temperature Coefficients

Short Circuit Current(Isc)	+0.048%/°C
Open Circuit Voltage(Voc)	-0.31%/°C
Nominal Max. Power(Pmax)	-0.38%/°C
NMOT	43±2°C

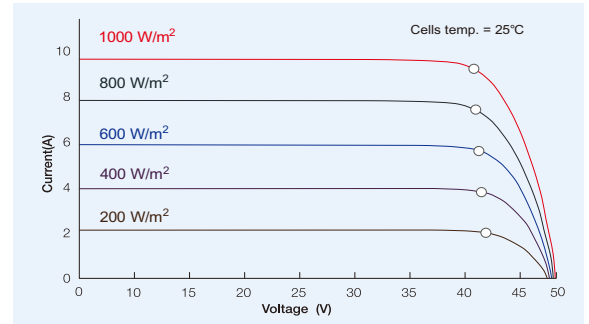
Operating Parameters

Max. System Voltage	DC1000V/DC1500V
Power Tolerance	0 ~ +5 W
Operating Temperature	-40°C ~ +85°C
Max. Fuse Rated Current	20A
Front Static Load	Snow load 5400Pa, Wind load 2400Pa
Application Classification	Class A
Packing Specification	27 pcs/Pallet, 235 pcs/ 20'GP; 540 pcs/ 40'HQ;

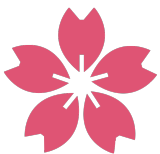
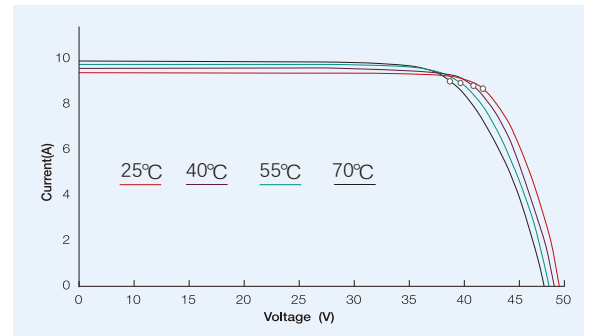
Dimension



I-V curve



I-V curve



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