

PERC BIFACIAL HALF CELL MODULE

SL5M144D

550 | 555 WATT

ELECTRICAL DATA	STC	NMOT	STC	NMOT
Rated Power In Watts-Pmax (Wp)	550	416	555	420
Maximum Power Voltage-Vmpp (V)	41.97	39.43	42.14	39.66
Maximum Power Current-Impp (A)	13.10	10.55	13.17	10.59
Open Circuit Voltage-Voc (V)	49.90	46.68	50.05	46.80
Short Circuit Current-Isc (A)	14.00	11.17	14.07	11.21
Module Efficiency (%)	21.3%	/	21.5%	/

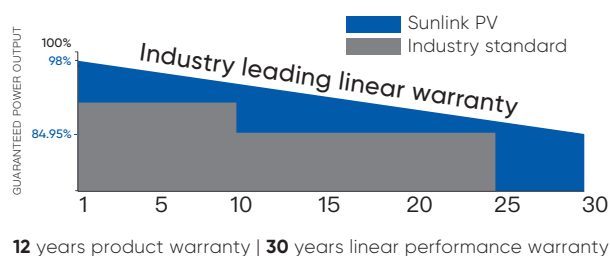
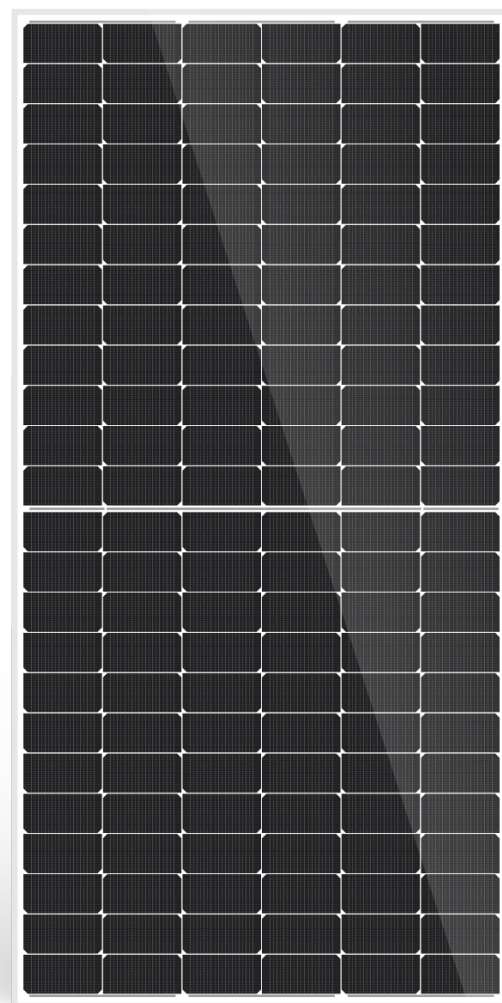
STC: Irradiation 1000 W/m², Cell Temperature 25°C, Air Mass AM1.5 according to EN 60904-3.
 NOCT: Irradiation: 800 W/m², ambient temperature: 20°C, air mass: 1.5, wind speed 1 m/s

Electrical Characteristics With Different Rear Side Power Again (Reference To 555W Front)	5%	10%	15%	20%	25%
Pmax gain (%)	5%	10%	15%	20%	25%
Maximum Power (Pmax/W)	583	611	638	666	694
Maximum Power Voltage (Vmpp/V)	42.14	42.14	42.14	42.14	42.14
Maximum Power Current (Impp/A)	13.84	14.50	15.14	15.81	16.47

MECHANICAL CHARACTERISTICS	
Solar Cells	Monocrystalline ,MBB
Cell Configuration	144cells (6 x 12 x 2)
Module Dimensions	2278 x 1134 x 30 mm
Weight	31.0 kg
Glass	High Transmission,Low Iron, Tempered ARC Glass
Back Sheet	2.0mm Glass
Frame	Anodized Aluminium Alloy, Silver
J-Box	IP68, 3 bypass diodes
Cables	4.0mm , (+) 380mm, (-) 380mm or customized length
Connector	MC4 Compatible

TEMPERATURE & MAXIMUM RATINGS	
Nominal Module Operating Temperature (NMOT)	44±2°C
Temperature Coefficient of Voc	-0.27% / °C
Temperature Coefficient of Isc	0.045% / °C
Temperature Coefficient of Pmax	-0.35% / °C
Operational Temperature	-40°C~+85°C
Maximum System Voltage	1500VDC
Max Series Fuse Rating	25A

PACKAGING CONFIGURATION	
Container Type	40 FT (HQ)
Number of Modules Per Container	720
Number of Modules Per Pallet	36
Number of Pallets Per Container	20

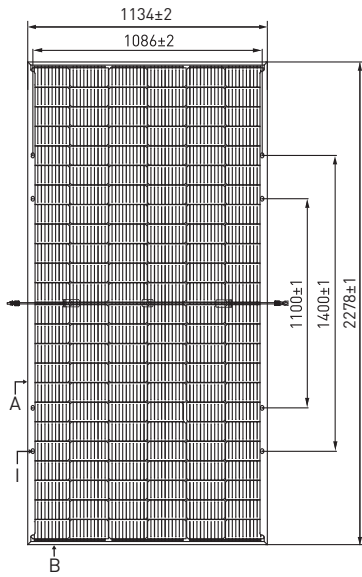


12 years product warranty | 30 years linear performance warranty

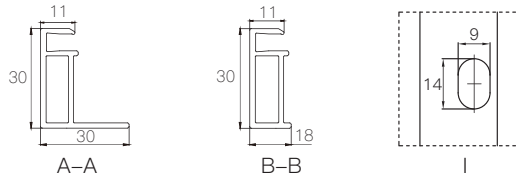
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SL5M144D 550 | 555 WATT

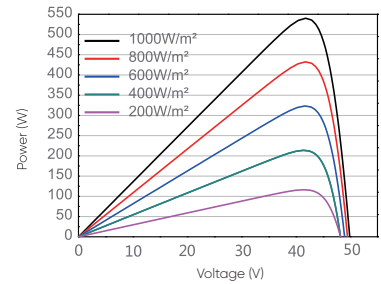
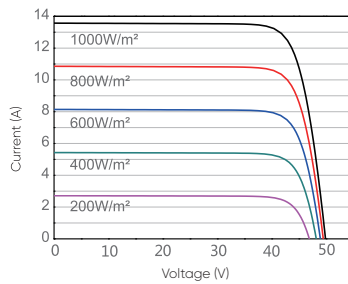
BACK OVERVIEW



DRAWINGS (MM)



CURRENT-VOLTAGE & POWER-VOLTAGE CURVES (SL5M144D)



HIGHLIGHTS

$$+ \frac{W}{m^2}$$

HIGHER EFFICIENCY

- Module efficiency high to 21.5% ensure less BOS cost
- Gain more solar power per square meter

$$\frac{12}{30}$$

LONGER WARRANTY

- PERC technology ensures 12-year product warranty and 30-year power warranty

$$\begin{matrix} \leq 2\% \\ \leq 0.5\% \end{matrix}$$

LESS DEGRADATION

- 1st year degradation < 2%
- Annual degradation < 0.5%

$$\geq 65\%$$

HIGHER BIFACIALITY

- 65%-70% Bifaciality ensures to gain more solar energy from backside

$$\begin{matrix} \%/^{\circ}C \\ -0.35 \end{matrix}$$

LOWER TEMPERATURE COEFFICIENT OF P_{MAX}

- PERC modules' coefficient of P_{max} low to -0.35%/C helps gaining more power at sunny days.