

MONO TOPCON BIFACIAL HALF CELL MODULE

SL5N144D

580 | 585 WATT

ELECTRICAL DATA	STC	NMOT	STC	NMOT
RATED POWER In Watts-Pmax(Wp)	580	441	585	447
Maximum Power Voltage-Vmpp(V)	43.3	40.61	43.43	40.86
Maximum Power Current-Imp(A)	13.4	10.86	13.47	10.94
Open Circuit Voltage-Voc(V)	51.48	48.99	51.74	49.23
Short Circuit Current-Isc(A)	14.24	11.39	14.32	11.45
Module Efficiency(%)	22.44%		22.60%	

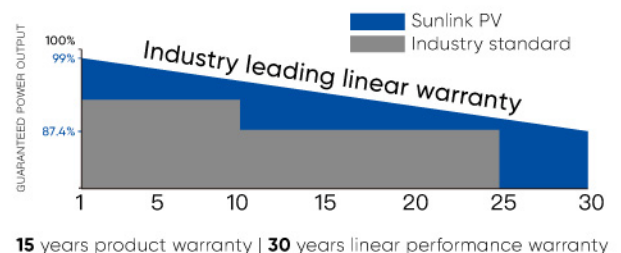
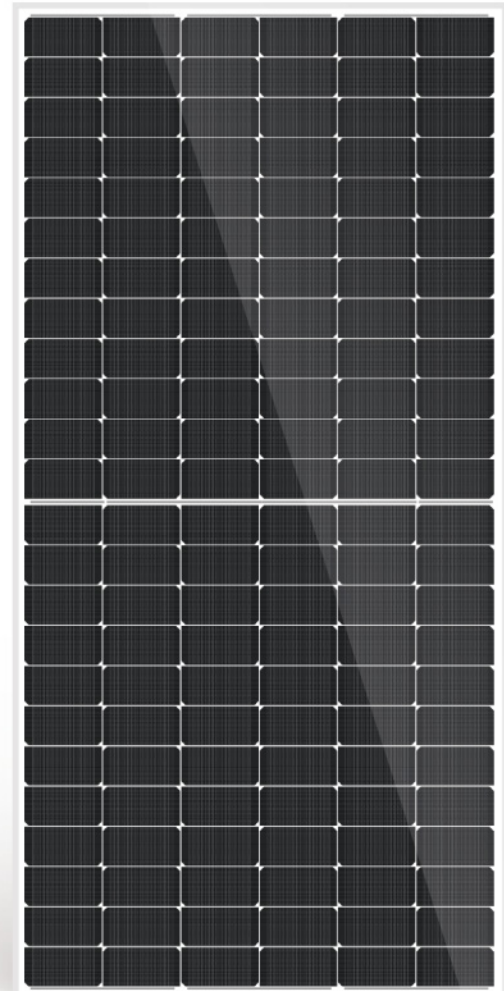
STC: Irradiation 1000 W/m², Cell Temperature 25°C, Air Mass AM1.5 according to EN 60904-3.
 NOCT: Irradiation: 800 W/m², ambient temperature: 20°C, air mass: 1.5, wind speed 1 m/s

ELECTRICAL CHARACTERISTICS WITH DIFFERENT REAR SIDE POWER AGAIN(REFERENCE TO 585WATT FRONT)					
Pmax gain (%)	5%	10%	15%	20%	25%
Maximum Power (Pmax/W)	614	644	673	702	731
Maximum Power Voltage (Vmpp/V)	43.43	43.43	43.43	43.43	43.43
Maximum Power Current (Imp/A)	14.14	14.83	15.5	16.16	16.83

MECHANICAL CHARACTERISTICS	
Solar Cells	Monocrystalline N-type, SMBB
Cell Configuration	144 cells(6*12*2)
Module Dimensions	2278*1134*30mm
Weight	32kg
Glass	High Transmission, Low Iron, Tempered ARC Glass
Back Sheet	2.0mm Glass
Frame	Anodized Aluminium Alloy, Silver
J-Box	IP68, 3bypass diodes
Cables	4mm ² , (+)380mm, (-)380mm or customized length
Connector	MC4 Compatible

TEMPERATURE & MAXIMUM RATINGS	
Nominal Module Operating Temperature (NMOT)	44±2°C
Temperature Coefficient of VOC	-0.25% / °C
Temperature Coefficient of ISC	0.045% / °C
Temperature Coefficient of PMAX	-0.30% / °C
Operational Temperature	-40°C~+85°C
Maximum System Voltage	1500VDC
Max Series Fuse Rating	25A

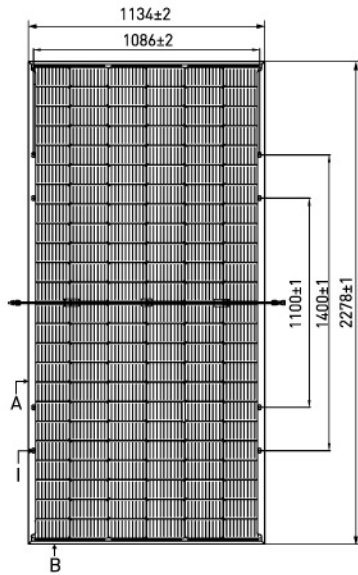
PACKAGING CONFIGURATION	
	40 FT (HQ)
Number of Modules Per Container	720
Number of Modules Per Pallet	36
Number of Pallets Per Container	20



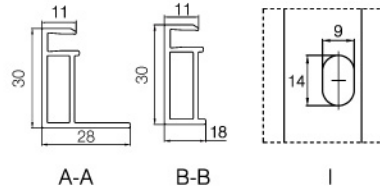
MONO TOPCON BIFACIAL HALF CELL MODULE

SL5N144D 580 | 585 WATT

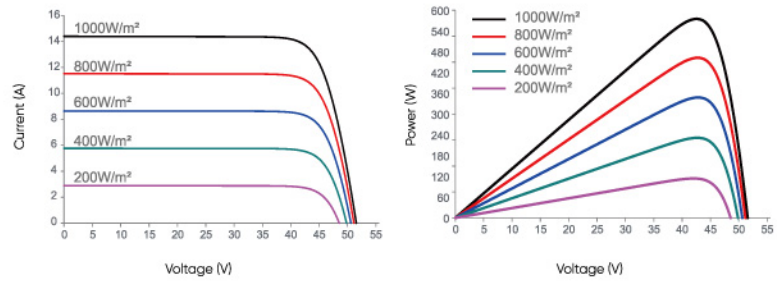
BACK OVERVIEW



DRAWINGS (MM)



CURRENT-VOLTAGE & POWER-VOLTAGE CURVES (580 WATT)



HIGHLIGHTS

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

HIGHER EFFICIENCY

- Module efficiency high to 22.6% ensure less BOS cost
- Gain more solar power per square meter

$$\frac{15}{30}$$

LONGER WARRANTY

- N-type TOPCON technology ensures 15-year product warranty and 30-year power warranty

$$\leq 1\%$$

$$\leq 0.4\%$$

LESS DEGRADATION

- 1st year degradation < 1%
- Annual degradation < 0.4%

$$\geq 75\%$$

HIGHER BIFACIALITY

- 75%–80% Bifaciality ensures to gain more solar energy from backside

$$\frac{\%}{^{\circ}C}$$

$$-0.3$$

LOWER TEMPERATURE COEFFICIENT OF P_{MAX}

- TOPCON modules' coefficient of P_{max} low to -0.3%/°C helps gaining more power at sunny days.