



182 Series 560–580W

N-type Half-cell Module

POWER OUTPUT RANGE
560–580W
MAXIMUM MODULE EFFICIE

MAXIMUM MODULE EFFICIENCY 22.5%

POWER WARRANTY

30 years

Characteristic



Higher Power Output Multi-busbar technology 1500V system voltage, reduce the BOS cost



Ultra-low Degradation

N-type modules are more reliable with less LID/LETID





Excellent Anti-PID Performance, guarantee less power degradation



Guaranteed Output Power

Module power positive tolerance; High power generation;Low levelized cost of energy



Best Solution to Harsh Conditions

Pass the mechanical load test, front 5400Pa and back 2400Pa



High Reliability Based On Strict Quantity.Control

Over 100 internal tests including ultraviolet irrtadiation, heat-recycling, damp heat(DH) test, humidity-freeze(HF) test and etc.



🌐 www.toensolar.com 🛛 🗹 sales@toenergysolar.com

Scan and focus on us



TOENERGY Technical Parameter

🖫 Electrical Data @STC					
Peak power-Pmax(Wp)	560	565	570	575	580
Power tolerance(W)			±3%		
Open circuit voltage - Voc(V)	50.4	50.6	50.8	51.0	51.2
Maximum power voltage - Vmpp(V)	43.4	43.6	43.8	44.0	44.2
Short circuit current - Im(A)	13.81	13.85	13.91	13.96	14.01
Maximum power current - Impp(A)	12.91	12.96	13.01	13.07	13.12
Module efficiency um(%)	21.7	21.9	22.1	22.3	22.5

Standard testing condition(STC): Irradiance 1000W/m², Temperature 25°C, AM 1.5

🖫 Mechanical Data

Cell size	Mono182×182mm
NO.of cells	144 Half Cells (6×24)
Dimension	2278*1134*35mm
Weight	27.2kg
Glass	3.2mm high transmission,Anti-reflectioncoating toughened glass
Frame	Anodized aluminum alloy
Junction box	SeparatedJunction box IP68 3 bypass diodes
Connector	AMPHENOLH4/MC4 connector
Cable	4.0mm ² , 300mm PV CABLE, length can be customized

Temperature Ratings

Nominal operating cell temperature	45±2°C
Temperature coefficient of Pmax	-0.30%/°C
Temperature coefficients of Voc	-0.25%/°C
Temperature coefficients of Isc	0.046%/°C

Maximum Ratings

Operating temperature	-40°Cto+85°C
Maximum system voltage	1500v DC (IEC/UL)
Maximum series fuse rating	j 25A
Pass hail test	Diameter 25mm, speed 23m,

ISO

SO4500

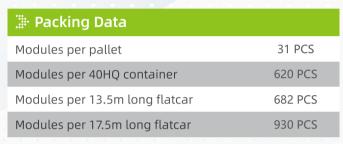
ISO

ÍSC

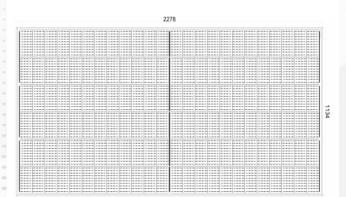
🕼 Warranty

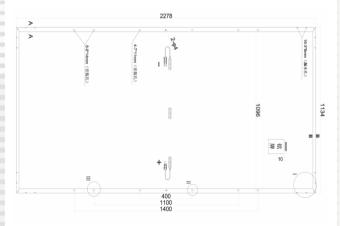
12 Years Workmanship Warranty

30 Years Performance Warranty



Dimension





Please refer to TOENERGY Solar product warranty for details

Toenergy Technology Hangzhou Co., Ltd

No 3, Gaoxin 9 Road, Xiaoshan Economy and Technology Development Zone, Hangzhou, China 311215.