



PEAK PV
SOLAR

TOPCon....

999

High Performance N-Type TOPCON Module

PEAK144-565-595TNB

144 CELL

Half-Cut Cell

565-595Wp

Power Output Range

1500VDC

Maximum System Voltage

16BB

Busbar Technology

23.1%

Maximum Efficiency

TOPCon

N-Type Cell



KEY FEATURES



Better Temperature Coefficient



Excellent low irradiance performance



PID

Excellent PID resistance



3x EL

Triple EL testing ensuring defect-free products



Module Imp binning radically reduces string mismatch loss



Certified to withstand severe environmental conditions

- Anti-reflective & anti-soiling surface minimise power loss from dirt and dust
- Severe salt mist, ammonia & blown sand resistance, for seaside, farm and desert environments
- Excellent wind load 2400Pa & snow load 5400Pa resistance under certain installation method



Comprehensive product and system certification

- IEC 61215:2021; IEC 61730:2023
- ISO 9001:2015 Quality Management System
- ISO 14001:2015 Environmental Management System
- ISO 45001:2018 Occupational Health & Safety Management System
- ISO 50001:2018 Energy Management System
- ISO/IEC 27001:2022 Information Security Management System
- ISO 10002:2018 Customer Satisfaction Management System

SGS

TUV
SAAR

ISO

IEC

CE



Our factory complies with ISO (9001, 10002, 14001, 27001, 45001, 50001) standards & the solar panels produced are in international IEC (61215, 61730, 62716, 61701, 60068, 62804) standards.

★ As there are different certification requirements in different markets, please contact your local PEAK PV SOLAR sales representative for the specific certificates applicable to the products in the region in which the products are to be used.

For more details, please contact:

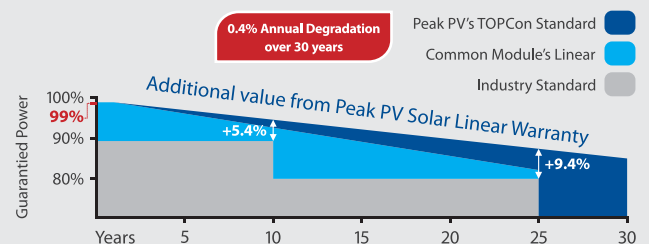
Peak PV Solar Teknolojileri A.Ş.

HQ: Saray Mah. Atom Cad. No:17 Kahramankazan/Ankara, P. +90.312 815 48 80 (pbx)

Factory: ASO 2 OSB, Alıcı OSB Mah. 2033. Cd. No:16, Sincan/Ankara, P. +90.312 309 03 44 (pbx)

LINEAR PERFORMANCE WARRANTY

15-year Product Warranty | **30-year** Linear Power Warranty

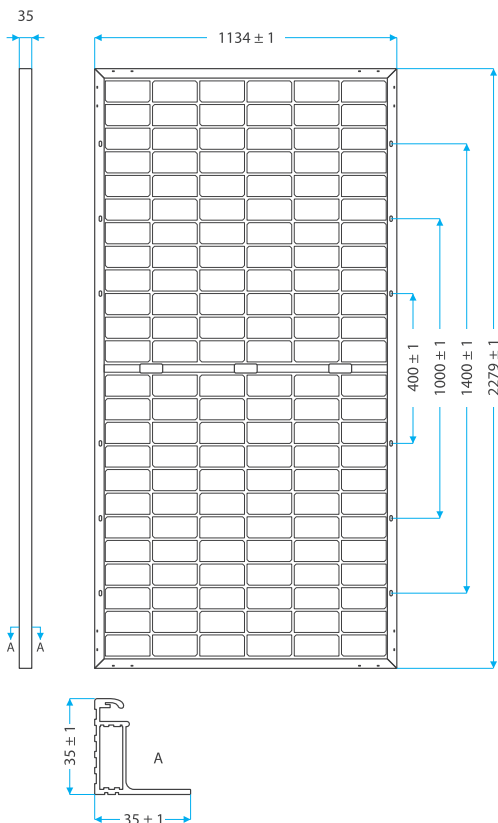


Please check the valid version of Limited Product Warranty which is officially released by PEAK PV SOLAR TEKNOLOJİLERİ A.Ş.



Dimensions of PV Module

Unit: mm



TYPE FAMILY PEAK144-565-595TN

Pmp (W)	565	570	575	580	585	590	595
Voc (V)	51.57	51.77	51.97	52.17	52.37	52.57	52.77
Isc (A)	13.96	14.01	14.06	14.12	14.18	14.24	14.30
Vmp (V)	43.20	43.40	43.60	43.80	44.00	44.20	44.40
Imp (A)	13.12	13.17	13.22	13.27	13.32	13.37	13.42
Module Efficiency (%)	21.9	22.1	22.3	22.5	22.7	22.9	23.1
Power Tolerance	0 + 4.99	0 + 4.99	0 + 4.99	0 + 4.99	0 + 4.99	0 + 4.99	0 + 4.99

STC: Irradiance 1000 W/m², Cell Temperature 25 °C, AM=1.5 according to EN 60904-3

★ Module Efficiency (%): Round-off to the nearest number. Measurement Tolerance: ±3

Electrical Data (NMOT)

Model Number	Pmp (W)	Voc (V)	Isc (A)	Vmp (V)	Imp (A)
PEAK144-565TN	428.2	47.97	10.43	40.10	10.68
PEAK144-570TN	432.3	48.15	11.48	40.28	10.73
PEAK144-575TN	436.1	48.33	11.53	40.46	10.78
PEAK144-580TN	439.8	48.52	11.58	40.65	10.82
PEAK144-585TN	443.6	48.70	11.63	40.83	10.87
PEAK144-590TN	448.2	48.88	11.68	41.05	10.92
PEAK144-595TN	452.3	49.06	11.73	41.23	10.97

★ NMOT: Irradiance 800 W/m², Ambient Temperature 20 °C, Wind Speed 1 m/s., AM=1.5

Mechanical Data

Solar Cells	Cell Configuration	Module Dimensions	Weight
N-Type TOPCon	144 Cells	2279 x 1134 x 35 mm	27,8 kg
Front Glass		Frame	J-Box
3,2 mm High Transmission, Low Iron, Tempered ARC Glass		Anodized Aluminium Alloy	IP68, 3 bypass diodes
Cables*			Connector
4.0 mm ² (IEC), Positive (+) 1200 mm, Negative (-) 1200 mm (Connector incl.)			MC4-EVO2

★ Cable lengths are optional. May vary depending on the project.

Temperature & Maximum Ratings

Nominal Module Operating Temperature (NMOT)	Temperature Coefficient of Voc	Temperature Coefficient of Isc	Temperature Coefficient of Pmax
43°C ± 2°C	-0.25% / °C	0.045% / °C	-0.32% / °C
Operational Temperature	Maximum System Voltage	Max Series Fuse Rating	
-40°C ~ +85°C	1500VDC	30A	

Packaging Configuration

Container	Number of Modules per Container	Number of Modules per Pallet	Number of Pallets per Container
40 ft (HQ)	704	32	22
Packaging Box Dimensions (L x W x H) in mm		Box Gross Weight (kg)	
2325 x 1150 x 1250		925	

