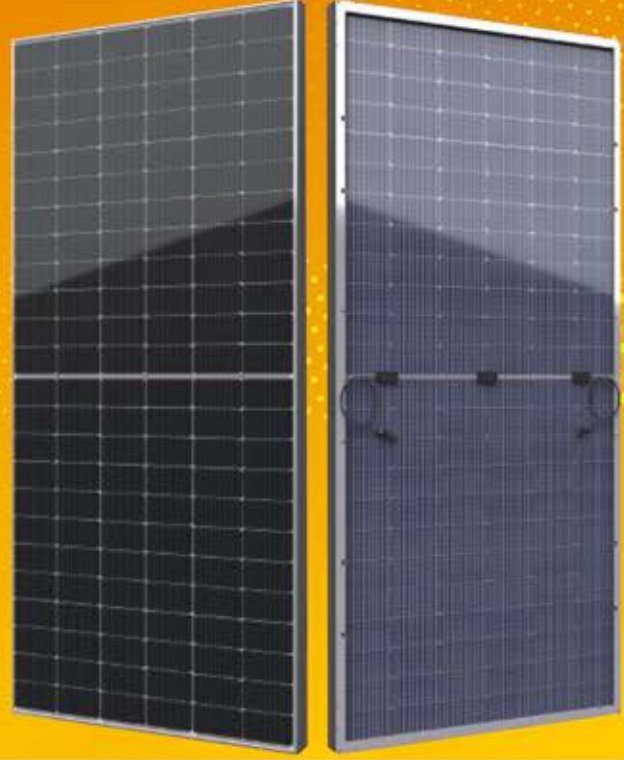


VSP-T SERIES

Enhancing The Power, Powering The Future








540-555W



• VSP-T SERIES

Vespa Energy redesigned the architecture of PV modules with bifacial 182mm (M10) multibusbar cell technology to have top quality and high efficiency PV modules

• KEY FEATURES

-  3 times EL (Electroluminescence) test for high quality
-  Half-Cut Technology minimizes the loss due to the shading effect
-  Improved low light performance
-  By reducing BoS and proposing better ROI, suitable for Residential, C&I and Utility Scale projects
-  Excellent heat dissipation by high quality UV blocking backsheet
-  Extra Power from back side
-  Certified reliability for
 - Sand, acid, salt and hail stones
 - Anti PID
 - 5400 Pa snow load and 2400 Pa wind load

Module Efficiency	No.of Cells	Weight	Dimensions
21.5%	144 (6X24)	28.2 kg	2279x1134x35 mm

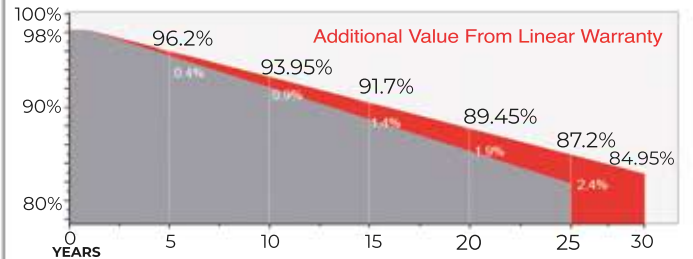
• PRODUCT CERTIFICATION



IEC 61215-1:2016
IEC 61215-1-1:2016
IEC 61215-2:2016
IEC 61730-1:2016
IEC 61730-2:2016



• WARRANTY




Guarantee on Product
Material and Workmanship


Linear Power
Output Warranty

PID RESISTANT

0/+5w Positive Power Tolerance



VSP SOLAR



VESPA

SOLAR ENERGY

Enhancing The Power, Powering The Future

Mechanical Specifications

External Dimension	2279 x 1134 x 35 mm
Weight	28.2 kg
Solar Cells	Bifacial Perc Mono Crystalline 182 mm (M10) 144 Pcs
Glass	3.2 mm, AR coating, Tempered, Low Iron
Backsheet	Fully Transparent, UV Cutting
Frame	Anodized Aluminium Alloy
Junction Box	IP68, 3 Diodes
Output Cables	4.0mm ² , 900mm(+), 900mm(-) or Customized Length Available

Packing Configuration

Container	20'GP	40'HQ
Pieces per Pallet	31	31
Pallets per Container	4	20
Pieces per Container	124	620

Electrical Characteristics

Module Type	VSP540T-M10-144H			VSP545T-M10-144H			VSP550T-M10-144H			VSP555T-M10-144H		
	Front STC	Front NOCT	Back STC	Front STC	Front NOCT	Back STC	Front STC	Front NOCT	Back STC	Front STC	Front NOCT	Back STC
Maximum Power- P_{mp} (w)	540	406	378	545	409	382	550	414	385	555	418	389
Maximum Power Voltage- V_{mp} (V)	41.65	38.48	41.71	41.80	38.41	41.86	41.95	38.58	42.10	42.09	38.48	42.12
Maximum Power Current- I_{mp} (A)	12.97	10.56	9.07	13.04	10.65	9.13	13.11	10.75	9.17	13.19	10.86	9.24
Open Circuit Voltage- V_{oc} (V)	49.50	46.18	49.48	49.65	46.36	49.63	49.80	46.49	49.78	49.95	46.64	49.92
Short Circuit Current- I_{sc} (A)	13.85	11.19	9.77	13.92	11.25	9.82	13.99	11.31	9.86	14.02	11.35	9.88
Module Efficiency STC- η_m (%)	20.92			21.12			21.31			21.50		
Power Tolerance (W)	(0.+4.99)											
Pmax Temperature Coefficient	-0.34 %/°C											
Voc Temperature Coefficient	-0.26 %/°C											
Isc Temperature Coefficient	+0.05 %/°C											

STC: Irradiance 1000 W/m² Module Temperature 25 °C AM=1.5 / Power Measurement Tolerance: +/-3% / Noct: Irradiance 800W / m², Ambient Temperature 20 °C, AM=1.5, Wind Speed 1m/s

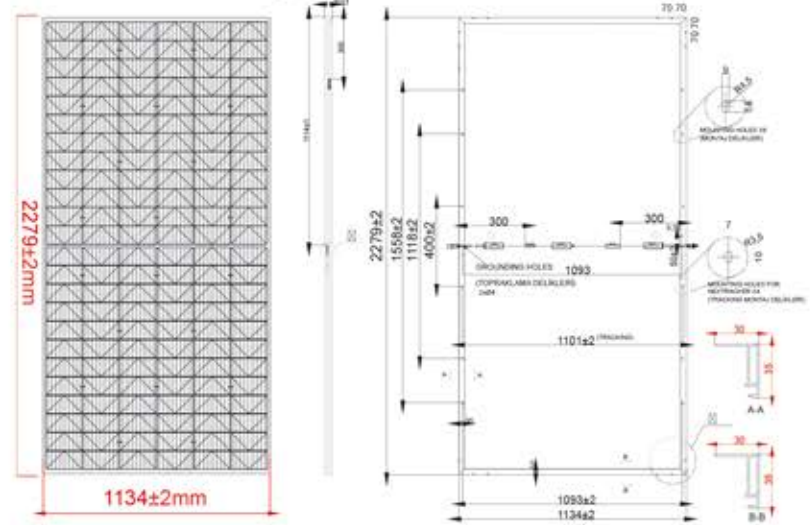
Rear Side Power Gain (VSP540T-M10-144H)

Power Gain	10%	15%	20%	25%	30%
Maximum Power- P_{mp} (w)	594	621	648	675	702
Maximum Power Voltage- V_{mp} (V)	41.65	41.65	41.65	41.65	41.65
Maximum Power Current- I_{mp} (A)	14.26	14.91	15.56	16.21	16.86
Open Circuit Voltage- V_{oc} (V)	49.50	49.50	49.50	49.50	49.50
Short Circuit Current- I_{sc} (A)	15.23	15.92	16.62	17.31	18.00

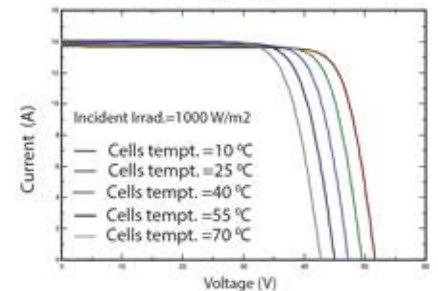
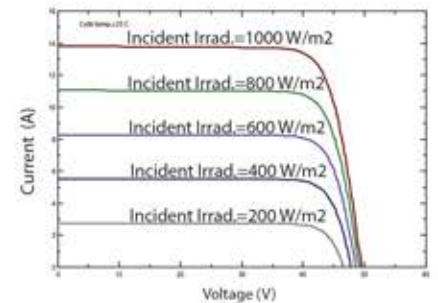
Application Conditions

Maximum System Voltage	1500V DC
Maximum Series Fuse Rating	25 A
Operating Temperature	-40~+85°C
Nominal Operating Cell Temperature	45±2°C
Bifaciality	70%±10%
Mechanical Load	Front Side 5400 Pa/ Back Side 2400 Pa

Technical drawing



I-V Curve



Specifications are subject to change without further notification © Copyright 2022 Vespa Solar Energy