



MBB HC BIFACIAL RECTANGULAR TOPCON CELL PV MODULE

SP620-640TR(SNMH)/132



CELL TECHNOLOGY 16BB HALF-CUT TOPCON CELLS

LOW LID/LeTID LOSS AND HIGH PERFORMANCE UNDER LOW IRRADIANCE CONDITIONS.



BIFACIAL PERFORMANCE

DUAL SIDE- POWER GENERATION
HIGHER ENERGY YIELD AND LOWER LCOE THANKS TO REAR-SIDE GAIN.



PID PROTECTION

ADVANCED ANTI-PID TECHNOLOGY
LONG-TERM PERFORMANCE UNDER HIGH SYSTEM VOLTAGE CONDITIONS



HIGH PERFORMANCE WARRANTY

30-YEAR LINEAR POWER OUTPUT WARRANTY
STABLE AND RELIABLE MODULE PERFORMANCE FOR LONG-TERM OPERATION



HARSH ENVIRONMENT RESISTANCE

DESIGN SUITABLE FOR ALL CLIMATE CONDITIONS
SUITABLE FOR SAND, HUMIDITY , WIND, AND DUSTY ENVIRONMENTS



MECHANICAL STRENGTH

HIGH DURABILITY
5400 PA SNOW LOAD / 2400 PA WIND LOAD.



ENVIRONMENTALLY FRIENDLY PRODUCTION

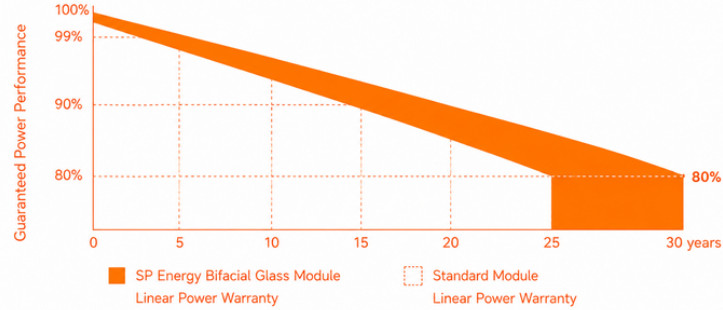
LOW CARBON FOOTPRINT
COMPOSITE FRAME AND SUSTAINABLE MANUFACTURING PROCESS.

WARRANTY

Additional Linear Performance Warranty

12 Years Product Warranty • 30 Years Linear Power Warranty

Average annual power loss of 0.4% over 30 years



PRODUCT
WARRANTY



LINEAR POWER
OUTPUT
WARRANTY

CERTIFICATIONS

TUV AUSTRIA CERTIFICATION

CE CONFORMITY

ISO 9001:2015 QUALITY MANAGEMENT SYSTEM

ISO 14001:2015 ENVIRONMENTAL MANAGEMENT SYSTEM

OHSAS 18001 - OCCUPATIONAL HEALTH & SAFETY

FPC FACTORY PROCESS CONTROL CERTIFICATION



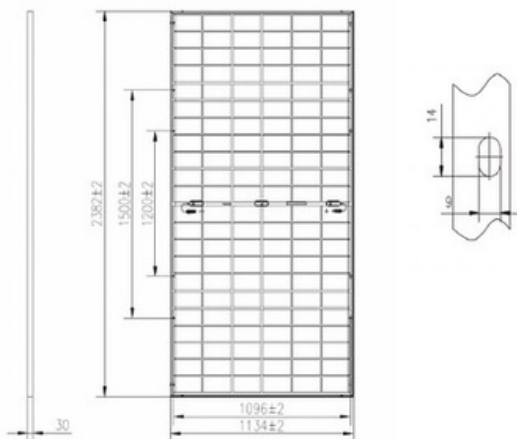
SP ENERJİ ELEKTRİK ÜRETİM LİMİTED ŞİRKETİ

 www.spenerji.com.tr

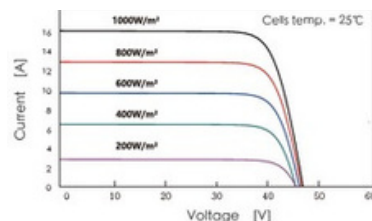




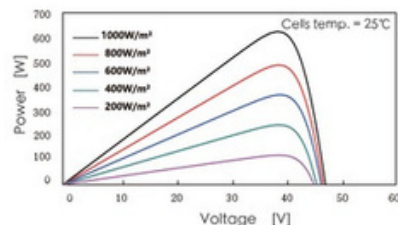
TECHNICAL DRAWING



I-V CURVE



P-V CURVE



ELECTRICAL PARAMETERS

Maximum Power (Pmax)	620	625	630	635	640
Open Circuit Voltage (Voc) V	48.98	49.17	49.35	49.47	49.66
Short Circuit Current(Isc) A	15.97	16.02	16.1	16.17	16.23
Voltage at Pmax (Vmp) V	40.8	40.97	41.12	41.24	41.39
Current at Pmax (Impp) A	15.2	15.26	15.33	15.4	15.47
Module Efficiency (STC) (%)	22.95%	23.14%	23.33%	23.51%	23.70%

REAR SIDE GAIN

5%	Maximum Power (W)	651	656.25	661.5	666.75	672
	Module Efficiency (STC):	24.10%	24.30%	24.50%	24.69%	24.89%
15%	Maximum Power (W)	713	718.75	724.5	730.25	736
	Module Efficiency (STC):	26%	26.61%	26.82%	27.03%	27.24%
25%	Maximum Power (W)	775	781.25	787.5	793.75	800
	Module Efficiency (STC):	28.69%	28.93%	29.16%	29.39%	29.62%

MECHANICAL PARAMETERS

Power Tolerance	(0,+4,99)
Maximum System Voltage	1500V DC
Pmax Temperature Coefficient	-0.30%/°C
Voc Temperature Coefficient	-0.25%/°C
Isc Temperature Coefficient	+0.045%/°C
Maximum Series Fuse Rating	30A
Operating Temperature	-40~ +85°C
Nominal Operating Cell Temperature (NOCT)	42±2°C

DIMENSIONS & CONSTRUCTION

Dimensions	2382*1134*30mm
Weight	32.5Kg±5%
Solar Cells	132Cells (2*6*11)
Glass	Dual glass 2.0 + 2.0 mm , AR coated, tempered, low iron
Frame	Composite (Colored)
Junction Box & Cable	IP68, 3 diodes,4 mm2, 350 mm cable
Mechanical Load	Front 5400 Pa / Rear 2400 Pa
Packaging	36 modules per pallet

* Cable length can be customized upon customer request during order.

