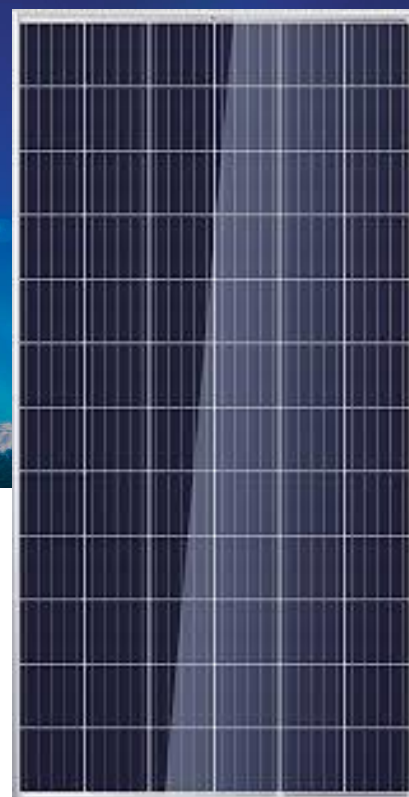




TBM72-320P~330P

Poly Crystalline 72 Cell Module – 320~330 W



TABAN Energy is one of the most reliable PV module manufacturer whose products are ideal for all PV power plants. TABAN modules are complying to withstand the most challenging environmental conditions. Maximum efficiency of 17% is caused by well-engineered module design, stringent BOM quality testing, and German automated manufacturing process.



High Resistance PID

Advanced cell technology and qualified materials lead to high resistance PID



High Reliability

Highly reliable due to stringent quality control and 2x100% EL inspection



High System Voltage Compatible

Maximum 1500 V DC system voltage reduces total system cost



IP68 Rated Junction Box

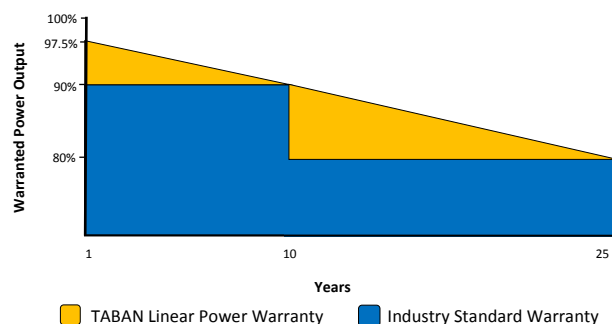
IP68 junction box for long-term weather endurance



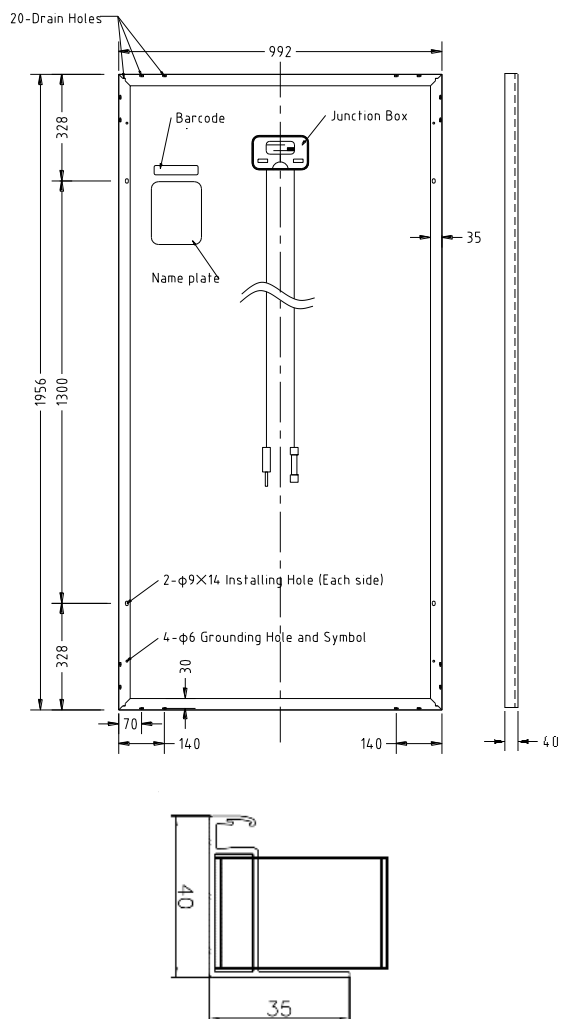
Linear Power Output Warranty



Product Warranty on materials and workmanship



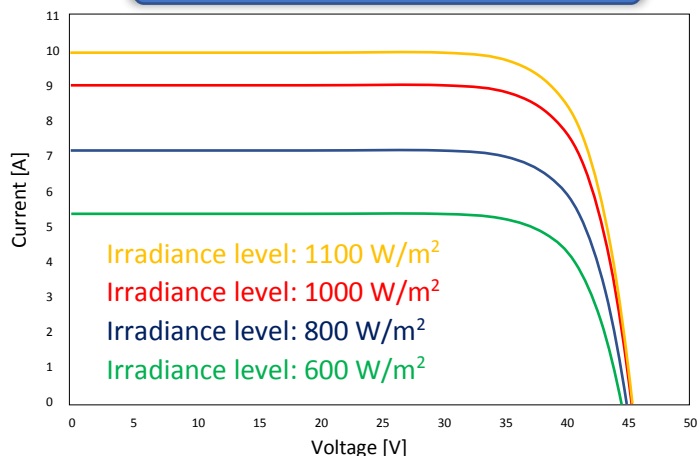
DIMENSIONS OF PV MODULES (mm)



Warning: Read the Installation and User Manual in its entirety before handling, installing, and operating TABAN Solar modules.

Partner Section:

I-V CURVES OF PV MODULES (320 W)



SPECIFICATIONS

Solar Cells	Polycrystalline 156.75 × 156.75 mm (6.17 inches)
Cell Orientation	72 cells (6 × 12)
Module Dimensions	1956 × 992 × 40 mm (77.0 × 39.1 × 1.57 inches)
Weight	22 kg (48.5 lb.)
Glass	3.2 mm (0.13 inches), High Transmission, AR Coated Tempered Glass
Backsheet	White
Frame	Silver Anodized Aluminum Alloy
Junction Box	IP68, 3 Bypass Diodes
Cables	Photovoltaic Technology Cable 4.0 mm², 1100 mm (43.3 inches)
Connector	MC4
Per Pallet	26 pieces, 635 kg (1400 lbs)
Per container (40' HQ)	624 pieces

ELECTRICAL PARAMETERS AT STC

Module type	TBM72-320P	TBM72-325P	TBM72-330P
Maximum Power (P_{max}) [W]	320	325	330
Maximum Power Voltage (V_{mp}) [V]	36.9	37.0	37.2
Maximum Power Current (I_{mp}) [A]	8.68	8.78	8.88
Open-circuit Voltage (V_{oc})** [V]	45.8	45.9	46.1
Short-circuit Current (I_{sc})* [A]	9.13	9.16	9.18
Module Efficiency STC [%]	16.5	16.75	17.0
Operating Temperature (η) [°C]		-40~+85	
Maximum System Voltage [VDC]		1500	
Maximum Series Fuse Rating [A]		15	

STC: Standard Test Condition; Irradiance 1000 W/m², Cell Temperature (25±2) °C, AM1.5 acc. to IEC 60904-3

* Maximum measurement uncertainty: ±5 % ** Maximum measurement uncertainty: ±3 %

ELECTRICAL PARAMETERS AT NMOT

Module type	TBM72-320P	TBM72-325P	TBM72-330P
Maximum Power (P_{max}) [W]	243	246	250
Maximum Power Voltage (V_{mp}) [V]	34.5	34.6	34.8
Maximum Power Current (I_{mp}) [A]	7.04	7.11	7.18
Open-circuit Voltage (V_{oc}) [V]	40.5	40.7	41.0
Short-circuit Current (I_{sc}) [A]	7.92	7.97	8.05

Under Nominal Module Operating Temperature, Irradiance 800 W/m², Ambient Temperature 20 °C, AM 1.5, Wind Speed 1 m/s

TEMPERATURE CHARACTERISTICS

Temperature Coefficient of P_{max} [%/°C]	-0.4038
Temperature Coefficient of V_{oc} [%/°C]	-0.2994
Temperature Coefficient of I_{sc} [%/°C]	0.0461
Nominal Module Operating Temperature [°C]	40.2 ± 2