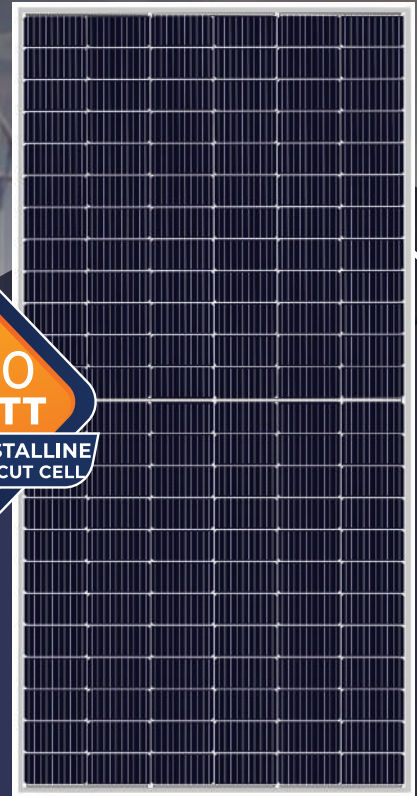


144
CELLS

21.7%
Maximum Module Efficiency



550 WATT
MONOCRYSTALLINE PERC HALF CUT CELL

TIER -01

10 YEARS

PRODUCT FOR MATERIAL AND PROCESSING

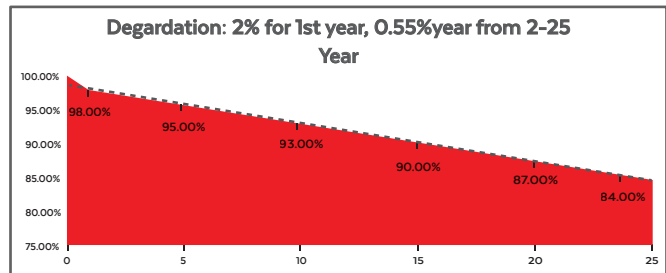
25 YEARS

WARRANTY FOR LINEAR POWER OUTPUT



TONGWEI SERIES
545 to 560 Mono PERC Half Cut Cell
TW550MAP-144-H

Linear Warranty



PRODUCT FEATURES



High Power Output Low LCOE



Maximum Power up to 565W+



High Reliability



Low Degradation

MANAGEMENT SYSTEM CERTIFICATION

ISO9001: 2015/Quality Management System

ISO14001: 2015/Environmental Management System

ISO45001: 2018/Occupational Health and Safety Management System





Electrical Specification (STC*)

Moduel type: TW***MAP-144-H

Maximum Power	Pmax [W]	545	550	555	560
Open Circuit Voltage	Voc [V]	49.71	49.91	50.11	50.31
Short Circuit Current	Isc [A]	13.88	13.92	13.96	14.00
Voltage at Maximum Power	Vmp [V]	41.05	41.25	41.45	41.65
Current at Maximum Power	Imp [A]	13.28	13.33	13.39	13.45
Module Efficiency	η [%]	21.1	21.3	21.5	21.7

STC: Irradiance 1000W/m², Cell Temperature 25°C, AM=1.5, Test Uncertainty: ±3%

Electrical Characteristics (NMOT)

Maximum Power	Pmax [W]	412.4	416.2	420.0	423.8
Open Circuit Voltage	Voc [V]	47.18	47.40	47.62	47.85
Short Circuit Current	Isc [A]	10.94	10.97	10.99	11.02
Voltage at Maximum Power	Vmp [V]	39.28	39.55	39.82	40.09
Current at Maximum Power	Imp [A]	10.50	10.52	10.55	10.57

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

Mechanical Parameters

Cell Type	P-PERC
Cell Orientation	144[6×24]
Dimensions	2278±2×1134±2×35mm
Weight	27.8 kg
Front Glass	3.2 mm AR coated heat strengthened glass
Backsheet	White
Frame	Anodized aluminum alloy frame
Junction Box	IP68, 3 diodes
Cable	4.0 mm ²
Cable length	Positive: 400mm, Negative: 200mm,length can be customized
Wind/Snow load	2400Pa/5400Pa
Per pallet	31 pcs
Packaging	620 pcs per 40'HC
Fire class rating	Class C

Temperature rating

Temperature Coefficient of Pmax	-0.34%/°C
Temperature Coefficient of Voc	-0.27%/°C
Temperature Coefficient of Isc	+0.045%/°C
NMOT	.45±2°C

Operating Parameters

Operating Temperature	-40°C~+85°C
Maximum System Voltage	1500V DC
Maximum Serues Fuse	25A
Rating Power Output Tolerance	0~+5W

