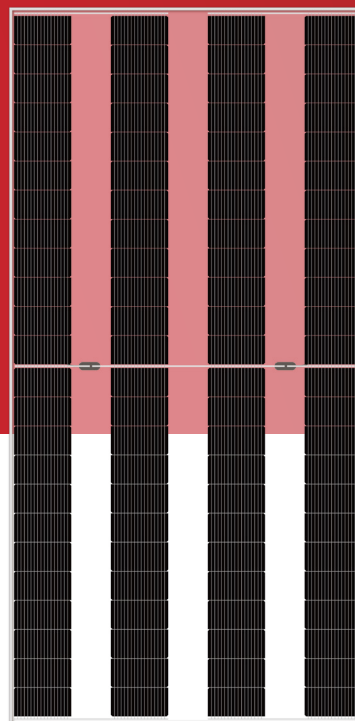




Tangra™ S Pro

380 - 395W

N-type bifacial double glass mono module



Bifacial technology enables additional energy harvesting from rear side (up to 30%)



30-year lifespan delivers 10-30% more power compared with conventional P-type modules



The natural lack of LID in the N-type solar cell can increase power generation



Excellent low irradiance performance



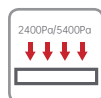
Better light trapping and current collection to improve module power output and reliability



Industry-leading, lowest thermal coefficient



Optimized electrical design and lower operating current for reduced hot spot loss and better temperature

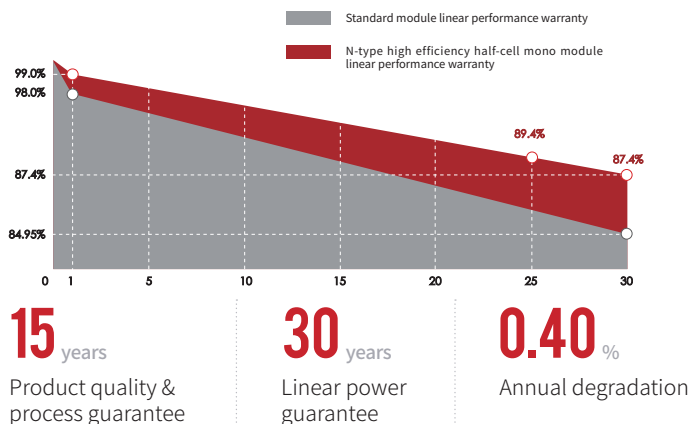


Certified to withstand 2400 Pa of wind load and 5400 Pa of snow load



100% triple EL test, which greatly reduces the hidden cracks rate

LINEAR PERFORMANCE WARRANTY



COMPREHENSIVE CERTIFICATES



- ISO 9001: Quality Management System
- ISO 14001: Environmental Management System Standard
- ISO 45001: International Occupational Health and Safety Assessment System Standard
- SA8000: 2014 Social Accountability Management System

* Different markets have different certification requirements. Also, the products are under rapid innovation. Please confirm the certification status with regional sales representatives.

WARRANTY INSURANCE



* Optional performance warranty insurance. Please contact our local sales staff for more information.

ELECTRICAL CHARACTERISTICS

Model of modules	SS-BG380-48MDH(T)		SS-BG385-48MDH(T)		SS-BG390-48MDH(T)		SS-BG395-48MDH(T)	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum power — P_{mp} (W)	380	286	385	290	390	294	395	297
Open-circuit voltage — V_{oc} (V)	34.75	32.80	34.95	32.99	35.15	33.18	35.35	33.37
Short-circuit current — I_{sc} (A)	13.86	11.20	13.92	11.25	13.98	11.30	14.04	11.34
Maximum power voltage — V_{mp} (V)	29.12	27.26	29.23	27.36	29.45	27.57	29.67	27.78
Maximum power current — I_{mp} (A)	13.05	10.50	13.18	10.61	13.23	10.65	13.30	10.70
Module efficiency — η_m (%)	14.7		14.9		15.1		15.3	

STC (Standard Testing Conditions): Irradiance 1000W/m², Cell Temperature 25 °C, Spectra at AM1.5

NOCT (Nominal Operating Cell Temperature): Irradiance 800W/m², Ambient Temperature 20°C, Spectra at AM1.5, Wind at 1m/s

ELECTRICAL CHARACTERISTICS WITH DIFFERENT POWER BIN (REFERENCE TO 13.5% IRRADIANCE RATIO)

Peak power (P_{max}) (W)	421	427	432	437
Open circuit voltage (V_{oc}) (V)	34.75	34.95	35.15	35.35
Short circuit current (I_{sc}) (A)	15.36	15.42	15.49	15.56
MPP voltage — V_{mp} (V)	29.12	29.23	29.45	29.67
MPP current — I_{mp} (A)	14.46	14.60	14.66	14.74

STRUCTURAL CHARACTERISTICS

Module dimensions (L*W*H)	2278 x 1134 x 35 mm
Weight	32 kg
Cell	96 cells, N-type monocrystalline
Front glass	2.0mm, anti-reflection coating
Back glass	2.0mm, heat strengthened glass
Frame	Glass fibre reinforced polyurethane
Junction box	IP68
Output wire	4.0 mm ²
Wire length	300mm/1200mm/customized length
Connector	MC4 Compatible
Packaging specification	31 pcs/Pallet; 620 pcs/40'HQ

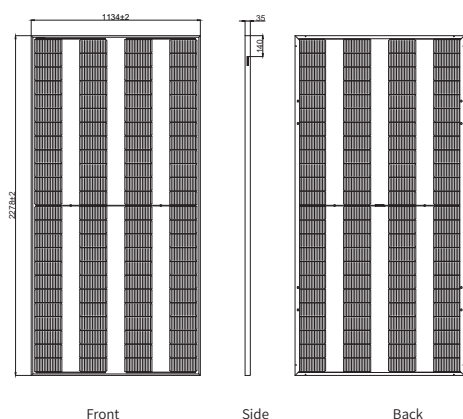
OPERATING PARAMETERS

Power tolerance (W)	(0,+5)
Maximum system voltage (V)	1500
Maximum rated fuse current (A)	30
Current operating temperature (°C)	-40~+85 °C
Mechanical load	5400 Pa * / 2400 Pa ∞

TEMPERATURE PERFORMANCE RATINGS

TANGRA temperature coefficient (P_{max})	-0.30 %/°C
Temperature coefficient (V_{oc})	-0.28 %/°C
Temperature coefficient (I_{sc})	+0.04 %/°C
Nominal operating cell temperature	43±2 °C

MODULE DIMENSIONS (MM)



* The unmarked tolerance is ±1 mm
Length shown in mm

