



[N-TYPE MODULE · G12R · 16BB]

TS-C630N

610-630 W

N-Type bifacial dual-glass modules, assembled in the United States. 132 half-cut cells sealed between dual 2.0 mm glass, backed by a 30-year linear performance warranty.

23.30%

MODULE EFFICIENCY

630^W

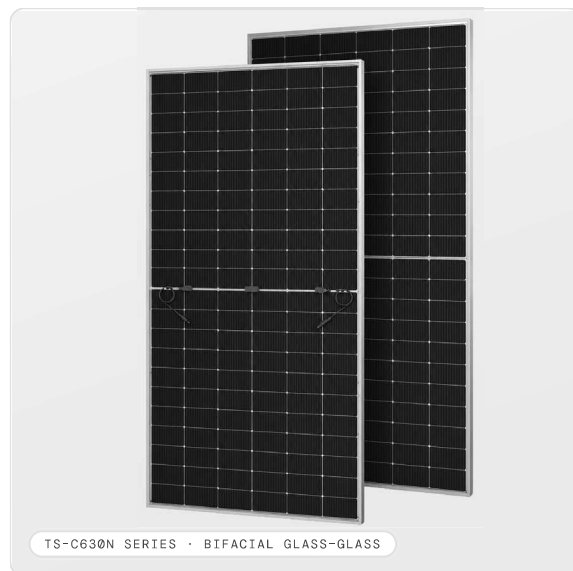
PEAK POWER

763^W

BIFACIAL PMAX

30^{yr}

LINEAR WARRANTY



TS-C630N SERIES · BIFACIAL GLASS-GLASS

[WHY TS-C630N] **Engineered for higher yield and a lower LCOE****Excellent temperature coefficient**

A Pmax of -0.290% /°C for high-heat efficiency.

**Superior low-light performance**

Extends daily power generation by over an hour.

**Minimal degradation**

Highly resistant to both LID and LeTID degradation.

**High bifacial yield**

An 85 % rate utilizes rear-side light to lower LCOE.

[CERTIFIED & COMPLIANT] **Tested to the standards that matter**

STANDARDS: IEC 61215:2021 · IEC 61730:2023 · ISO 9001:2015 · ISO 14001:2015 · ISO 45001:2018 · Made in USA.

[CIRCULARITY] **Built to be recovered, not discarded**

PV CYCLE MEMBER · TAKE-BACK PROGRAM

Environmental responsibility doesn't end at the panel.

We have two recovery streams: one in the factory, one in the field, routing away from landfill.

01 In manufacturing

Scrap, cartons, plastics, broken cells, and defective raw material are routed for recycling rather than landfill.

02 At end of life

We take modules back from customers when a unit is being replaced under warranty or a system has reached the end of its service life.

**Materials recovered**

Backed by PV CYCLE membership.

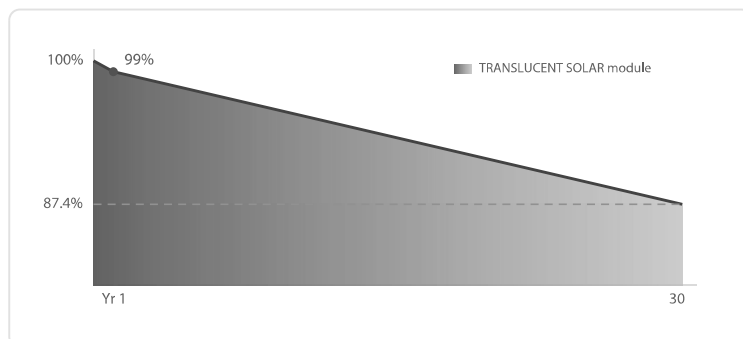
[WARRANTY] **Linear performance warranty**

LINEAR POWER · 30-YEAR HORIZON

12 Years product warranty on materials & workmanship

30 Years linear power output warranty

30-year decay $\leq 0.55\%$ annually on average



Electrical characteristics

Testing Condition	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power (P _{max} /W)	610	466	615	470	620	473	625	476	630	479
Operating Voltage (V _{mpp} /V)	40.80	38.30	41.00	38.50	41.20	38.70	41.40	38.90	41.60	39.10
Operating Current (I _{mp} /A)	14.96	12.16	15.00	12.21	15.05	12.23	15.10	12.24	15.15	12.25
Open-Circuit Voltage (V _{oc} /V)	49.00	46.50	49.30	46.80	49.60	47.10	49.90	47.40	50.20	47.70
Short-Circuit Current (I _{sc} /A)	15.86	12.78	15.90	12.81	15.94	12.84	15.98	12.87	16.02	12.90
Module Efficiency (%)	22.60		22.80		23.00		23.10		23.30	

STC: Irradiance 1000W/m², Spectra at AM1.5, Module Temperature 25°C. Power output tolerance: 0~+5W, Test uncertainty for P_{max}:±3%
NMOT:Irradiance 800W/m², Spectra at AM1.5, Ambient Temperature 20°C, Wind speed 1m/s

Rear side power gain (reference to 615W front)

P _{max} gain	5%	10%	15%	20%	25%
P _{max} /W	641	677	707	732	763
V _{mpp} /V	41.00	41.00	41.00	41.00	41.00
I _{mp} /A	15.75	16.50	17.25	18.00	18.75
V _{oc} /V	49.30	49.30	49.30	49.30	49.30
I _{sc} /A	16.70	17.49	18.29	19.08	19.88

Mechanical characteristics

Cell Type	N-type Mono-Crystallin (16Busbar)
No. of Cells	132pcs in series (6*22)
Module Dimensions	2382*1134*30mm (93.78*44.65*1.18inches)
Weight	33.7kg (74.29lbs.)
Front Glass	2.0mm AR Coating Semi-tempered Glass
Back Glass	2.0mm GlazedSemi-tempered Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68, 3 Bypass Diodes
Output Cables	4mm ² (IEC), 12AWG(UL) 350mm(+),250mm(-) or Customized Length
Connectors	MC4/MC4-EV02A/Others

Application conditions

Maximum System Voltage	1500V/DC
Operating Temperature	-40°C~+85°C
Maximun Series Fuse	35A
Safety Protection Class	ClassII
Mechanical Load*	Front side 5400Pa, Back side 2400Pa
Refer. Bifaciality Factor	80%±5%

*Refer to the installation manual for details

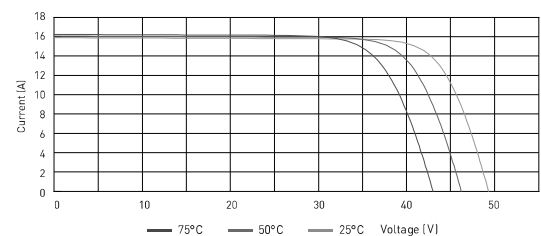
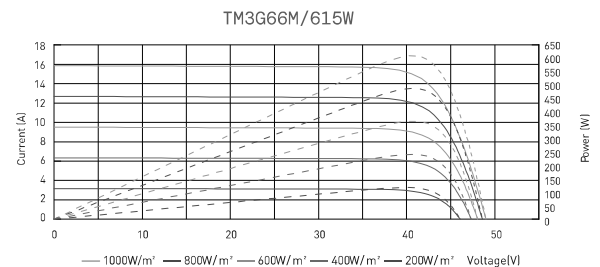
Temperature characteristics

Temperature Coefficient of P _{max}	-0.29%/°C
Temperature Coefficient of V _{oc}	-0.24%/°C
Temperature Coefficient of I _{sc}	+0.043%/°C
Nominal Module Operating Temperature(NMOT)	43±2°C

Packing configuration

Pieces Per Pallet	36	36(USA)
Pieces Per Container(40'HQ)	720	540

Electrical performance



Technical drawings

