

TCL Solar Back Contact

HSM-BD60-LA500~520
G10LD-60P

520W

Maximum Power Output

23.5%

Maximum Efficiency



 Higher energy density;
lower operating temperature

 Lower hotspot temperature;
reduce risk of micro-cracks

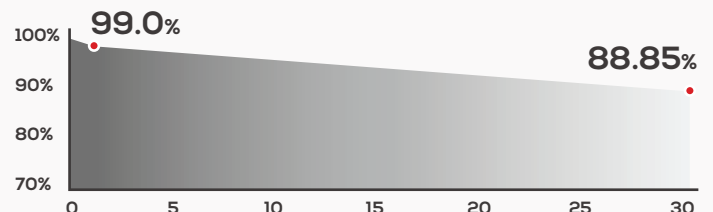
 Refined design,
Busbar-free front side

 Full-black modules,
harmonized integration with rooftops

 Comprehensive supply chain integration,
redefining BC standards

Linear Performance Warranty

 25 Years Product Warranty  30 Years Linear Performance Warranty



Comprehensive Products and System Certificates



IEC 61215 / IEC 61730 ISO 9001:2015 ISO 45001:2018 ISO 14001:2015

HSM-BD60-LAxxx, where xxx = Pmax at STC

Measurement Tolerance: Pmax (W) ±3%; Voc (V) ±3%; Isc (A) ±3%

* STC: Irradiance 1000W/m², Cell Temperature 25°C, AM1.5

Electrical Parameters

Maximum Power	Pmax (W)	500	505	510	515	520
Open Circuit Voltage	Voc (V)	45.02	45.12	45.22	45.32	45.42
Short Circuit Current	Isc (A)	14.05	14.11	14.17	14.23	14.29
Maximum Power Voltage	Vmp (V)	37.90	38.00	38.10	38.20	38.30
Maximum Power Current	Imp (A)	13.20	13.30	13.39	13.49	13.58
Module Efficiency	(%)	22.6	22.8	23.0	23.2	23.5

Temperature Coefficient

Nominal Module Operating Temperature* 43±2°C

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

Temperature Coefficient of Isc +0.05%/°C

Temperature Coefficient of Voc -0.22%/°C

Temperature Coefficient of Pmax -0.26%/°C

Operating Parameters

Operating Temperature -40~+70°C

Module [T98] max 70°C

Maximum System Voltage 1500V DC

Maximum Series Fuse Rating 25A

Mechanical Data

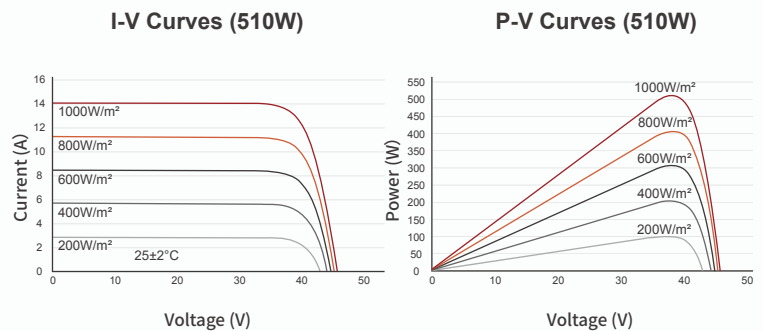
* Please refer to installation manual for details

No. of Cells	120pcs (6×20)
Dimension	1954×1134×30 mm
Weight	23.5kg±3%
Front Glass	3.2mm, Heat Strengthened, AR coating Glass
Back Sheet	Black
Frame	Anodized Aluminium Alloy
J-Box	IP68, three diodes
Cables	4.0mm ² , +1200mm, -1200mm (can be customized)
Maximum Static Load	Front: +5400Pa/Back: -2400Pa*
Fire Rating	IEC Class C
Connectors:	Staubli Electrical Connectors AG, PV-KST4-EVO 2/xy_UR; PV-KBT4-EVO 2/xy_UR

Packaging Configuration

Modules per Pallet	37pcs
Modules per 40'HQ Container	888pcs
Pallets per 40'HQ Container	24pcs

Curve Graph



Engineering Drawing

[Unit: mm]

