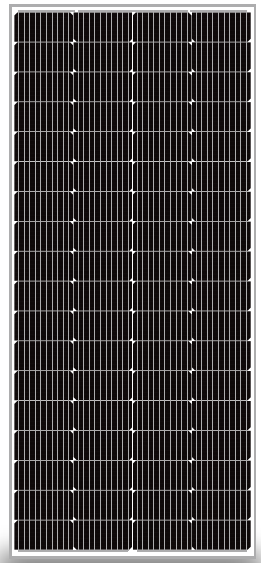
SLD TECH™
Renewable Technology And Solutions

SOLAR PANEL

ST-255Q-24CID2-QC

High Efficiency Monocrystalline PV Module

- Nominal 24V DC for standard output.
- Outstanding low-light performance.
- Heavy-duty anodized frames.
- High transparent low-iron, tempered glass.
- Designed to withstand high wind pressures, hail and heavy snow.
- Quality aesthetic appearance.



C SA US
272637
CLASS I, DIVISION 2,
GROUPS A, B, C AND D

10 years
Product Warranty

25 years
Power Warranty

Industry Compliant

This CID2-rated solar panel is suitable for industries that are at risk of gas explosions, meeting NFPA and NEC safety standards

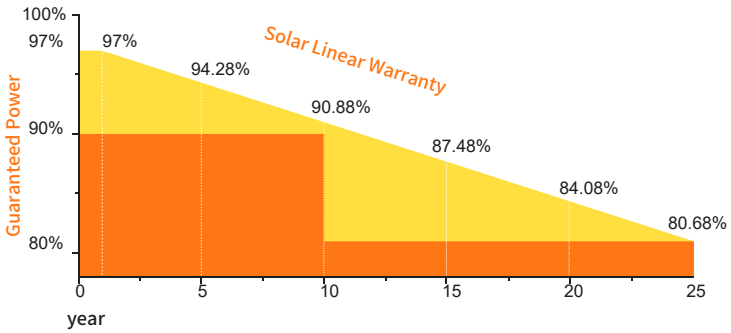
Enhanced Safety

Equipped with specialized design elements, minimizing risk of ignition in hazardous environments, further adhering to CID2 certification standards

Mechanical Robustness & Reliability

Engineered for durability and reliability, capable of operating efficiently even in volatile and hazardous conditions, where safety and efficiency matter most

Performance Warranty



Wind Load/Snow Load:
2400pa/5400pa

Positive Power Tolerance:
3%

Warranty Information:
10 Year Product Workmanship

Specifications	
Cells	Monocrystalline silicon solar cell
No. of cells and connections	72(4x18)
Module dimension	67.9in.x30.24in.x1.57in. [1725mmx768mmx40mm]
Weight	33.46lbs[15.18kg]

Rating Characteristics	
Operating temperature	-40°C to 65°C
Maximum system voltage	600V DC
Power tolerance	0~± 3%
Module Fire Performance	Type 1 (for US)
Fire Resistance Rating	Class C (For Canada)
PV module application class	Class A
Temperature code rating	T3C

*NOCT:Nominal operating cell temperature (the data is only for reference)

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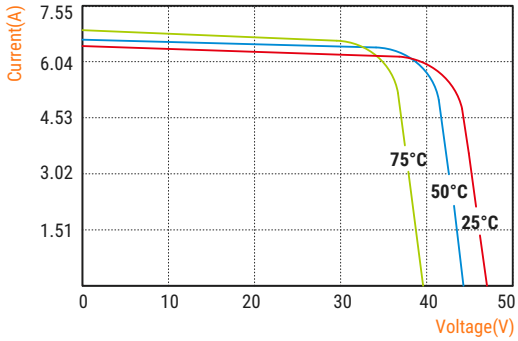
Electrical Characteristics	
Module Type	ST-255Q-24CID2-QC
Maximum power (Pmax)	255W
Voltage at Pmax (Vmp)	40.59V
Current at Pmax (Imp)	6.28A
Open-circuit voltage (Voc)	47.09V
Short-circuit current (Isc)	6.61A
Module Efficiency	22.00%

*STC: Irradiance 1000W/m², AM1.5 spectrum, module temperature 25°C

Temperature Characteristics	
Temperature coefficient of Voc	-(80±10)mV/°C
Temperature coefficient of Isc	(0.065±0.015)%/°C
Temperature coefficient of power	-(0.5±0.05)%/°C
NOCT (Air 20°C; Sun 0.8kW/m² wind 1m/s)	47±2°C

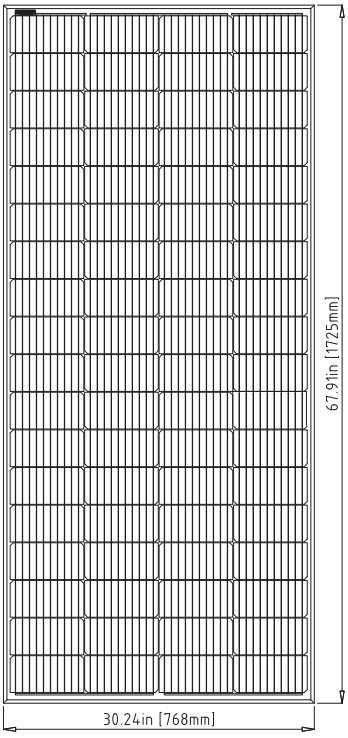
I-V Curves (STC)

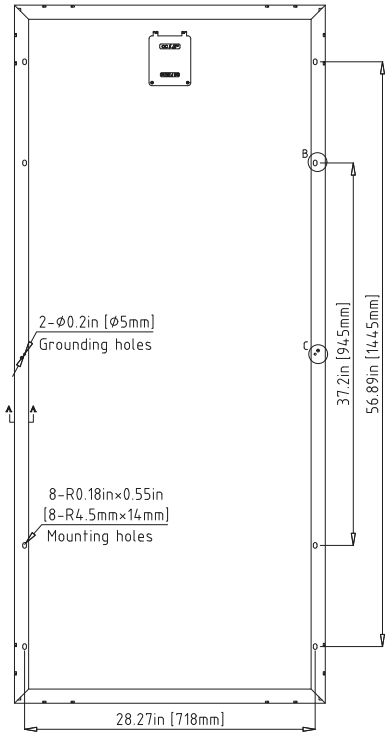
ST-255Q-24CID2-QC

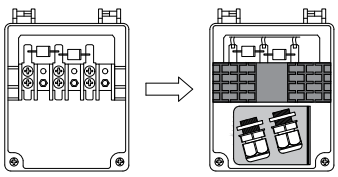


Mechanical Diagrams

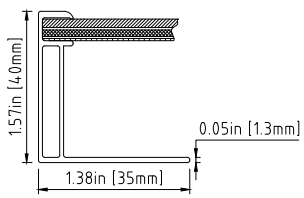
ST-255Q-24CID2-QC







Junction Box
Top View (Lid Open)



Section A-A