

# SHINGLED MODULE FULL BLACK

## 375-400W

PERC  
technology



Black Frame  
Black Backsheet

1646 x 1140 x 35 mm



## HIGH QUALITY AND RELIABLE MODULES

- Withstand up to 5400 Pa snow load
- 0-+5 W guaranteed positive power tolerance
- Rugged design for long-term durability; passed extended reliability tests



## POWER OUTPUT WARRANTY

- 20-year product warranty
- 25-year linear power output warranty
  - 1st year: min. 98 % of the maximum nominal power output
  - 2nd - 24th year: linear degradation
  - 25th year: min. 84,8 % of the maximum nominal power output



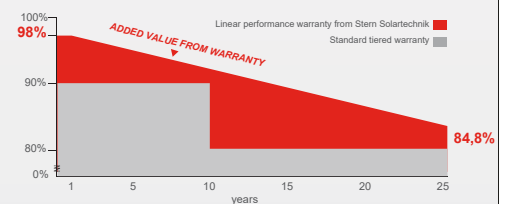
## COMPREHENSIVE CERTIFICATES FOR PRODUCTS AND MANAGEMENT

- IEC 61215, IEC 61730 and CE
- ISO 9001:2015 for Quality Management Systems
- ISO 14001:2015 for Environmental Management Systems
- OHSAS 18001 Occupational Health and Safety System
- PID-test IEC 62804

0~+5W  
POWER TOLERANCE

21.3%  
MAXIMUM EFFICIENCY

375-400W  
POWER OUTPUT RANGE



## Electrical Characteristics STC

STC: AM1.5 Irradiance 1000 W/m <sup>2</sup> / 25°C	ST 400 SH	ST 395 SH	ST 390 SH	ST 385 SH	ST 380 SH	ST 375 SH
Maximum Power (Pmax)	400 W	395 W	390 W	385 W	380 W	375 W
Maximum Power Current (Imp)	9.66 A	9.59 A	9.51 A	9.44 A	9.36 A	9.28 A
Maximum Power Voltage (Vmp)	41.4 V	41.2 V	41 V	40.8 V	40.6 V	40.4 V
Short Circuit Current (Isc)	10.12 A	10.07 A	10.03 A	9.98 A	9.93 A	9.89 A
Open Circuit Voltage (Voc)	49.9 V	49.7 V	49.5 V	49.3 V	49.1 V	48.9 V
Module Efficiency	21.3 %	21.1 %	20.8 %	20.5 %	20.3 %	20.0 %
Power Tolerance	0~+5 W	0~+5 W	0~+5 W	0~+5 W	0~+5 W	0~+5 W

## Electrical Characteristics NMOT

NMOT: Irradiance 800 W/m <sup>2</sup> / 20°C / Wind speed 1m/s	ST 400 SH	ST 395 SH	ST 390 SH	ST 385 SH	ST 380 SH	ST 375 SH
Maximum Power (Pmax)	301 W	297 W	294 W	290 W	286 W	282 W
Maximum Power Current (Imp)	7.63 A	7.57 A	7.51 A	7.45 A	7.39 A	7.33 A
Maximum Power Voltage (Vmp)	39.5 V	39.3 V	39.1 V	38.9 V	38.7 V	38.5 V
Short Circuit Current (Isc)	8.15 A	8.11 A	8.08 A	8.04 A	8.00 A	7.97 A
Open Circuit Voltage (Voc)	47.6 V	47.4 V	47.2 V	47.0 V	46.8 V	46.6 V

## Mechanical Characteristics

Solar Cell	Mono crystalline, Shingled
Glass	Safety glass 3.2 mm with high weatherability blacksheet
Frame	Anodized aluminum profile
Junction Box	Rated current: 15A, IP67, TUV&UL
Cable	4 mm <sup>2</sup> (EU)/1000 mm long
Connector	MC4 compatible
Dimension	1646x1140x35 mm
Weight	20.5 KG

## Thermal Characteristics

Pmax Temperature Coefficient	-0.34%/K
Voc Temperature Coefficient	-0.27%/K
Isc Temperature Coefficient	+0.04%/K
NMOT	42.3°C (±2°C)

## Packing Information

Pieces per pallet	31
Pallets per container (40HQ)	40
Pieces per container (40HQ)	868

## Maximum Ratings

Operating Temperature	-40~85°C
Maximum Series Fuse Rating	20 A
Maximum System Voltage	1000 V (optional 1500 V)

I-V Curves at different irradiances  
Test Temperature: 25°C

