STERN SOLARTECHNIK

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60 CELL MONO
290-310 W(5BB)
FULL BLACK

PERC technolgy

1640 x 992 x 40 mm
Black Frame / White Backsheet

HIGH QUALITY AND RELIABLE MODULES

- 0~+5 W guaranteed positive tolerance
- Withstand up to 5200 Pa snow load and 2300 Pa wind load
- Rugged design for long-term durability
- 1000/1500V DC
- 2 EL inspections per cell/module for defect-free consistency
- High salt and ammonia resistance certified
- Fire Rating Class C

POWER OUTPUT WARRANTY

- 20-year product warranty
- 25-year linear power output warranty
- For the 1st year, Stern guarantees that the actual output of the PV module will be no less than 97% of the nominal power output.
- From 2nd year to 24th year, the actual output annual decline will be no more than 0.7% and by the end of 25th year, the actual power output of the PV module will be no less than 80.2%. The actual power shall be determined for verification under STC conditions only.The measurement method is either carried out by Stern measurement facilities or Stern recognized 3rd-Party test institutes. Testing equipment tolerance will be applied to all actual power output measurements.

COMPREHENSIVE CERTIFICATES FOR PRODUCTS AND MANAGEMENT

- ISO 9001 for Quality Management Systems
- ISO 14001 for Environmental Management Systems
- ISO 18001 Occupational Health and Safety System
- UL 1703, IEC 61215, IEC 61730, CEC listed, MCS and CE

TÜV NORD · MCS · Intertek · solar CALIFORNIA

0~+5 W
POWER TOLERANCE

19.1%
MAXIMUM EFFICIENCY

290-310 W
POWER OUTPUT RANGE

PRODUCT WARRANTY 20 YEAR

LINEAR POWER OUTPUT WARRANTY 25 YEAR

Electrical Characteristics STC

STC: AM1.5 Irradiance 1000 W/m² / 25°C	BVM66 10M-290	BVM66 10M-295	BVM66 10M-300	BVM66 10M-305	BVM66 10M-310
Maximum Power (Pmax)	290 W	295 W	300 W	305 W	310 W
Maximum Power Current (Imp)	9.10 A	9.23 A	9.33 A	9.43 A	9.52 A
Maximum Power Voltage (Vmp)	31.93 V	32.02 V	32.21 V	32.40 V	32.62 V
Short Circuit Current (Isc)	9.50 A	9.58 A	9.69 A	9.79 A	9.89 A
Open Circuit Voltage (Voc)	39.20 V	39.40 V	39.50 V	39.90 V	40.10 V
Module Efficiency	17.8%	18.1%	18.4%	18.7%	19.1%
Power Tolerance	0~+5 W	0~+5 W	0~+5 W	0~+5 W	0~+5 W

Electrical Characteristics NOCT

NOCT: AM1.5 Irradiance 800 W/m² / 20°C / Wind speed 1 m/s	BVM66 10M-290	BVM66 10M-295	BVM66 10M-300	BVM66 10M-305	BVM66 10M-310
Maximum Power (Pmax)	212 W	216 W	219 W	223 W	227 W
Maximum Power Current (Imp)	7.17 A	7.25 A	7.30 A	7.36 A	7.42 A
Maximum Power Voltage (Vmp)	29.60 V	29.80 V	30.00 V	30.30 V	30.60 V
Short Circuit Current (Isc)	7.79 A	7.86 A	7.97 A	8.05 A	8.13 A
Open Circuit Voltage (Voc)	36.10 V	36.30 V	36.50 V	36.90 V	37.10 V

Packing Information

Pieces per pallet	30
Pallets per container (40HQ)	28
Pieces per container (40HQ)	840
Pallet weight	590 kg
Pallet size	1690 x 1100 x 1145 mm

Maximum Ratings

Operating Temperature	-40~85°C
Maximum Series Fuse Rating	15/20 A
Maximum System Voltage	1000/1500 V DC

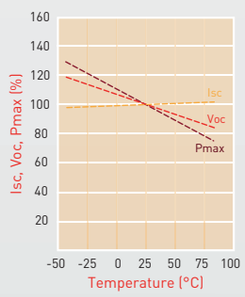
Mechanical Characteristics

Solar Cell	Monocrystalline 156.75 x 156.75 mm 60 (6 x 10) pcs in series
Glass	High transparency, low iron tempered glass 3.2 mm
Frame	Anodized aluminum alloy
Junction Box	IP67 rated, with 3 bypass diode
Output Cable	4 mm² (EU)/900/1000 mm long
Connector	MC4 compatible
Dimension	1640 x 992 x 35 mm
Weight	18 kg

Thermal Characteristics

Pmax Temperature Coefficient	-0.40%/K
Voc Temperature Coefficient	-0.31%/ K
Isc Temperature Coefficient	+0.06%/K
NOCT	45±2°C

Irradiance: AM 1.5, 1,000W/m² (305 W)



I-V Curves at Different Irradiances (305 W)
Test Temperature: 25°C