



BS-385M-405M-144

BRITISH SOLAR

Monocrystalline module

Characteristics

System Voltage:

The maximum voltage is promoted to 1500V and the module strings are extended by 50% which reduces the overall system BOS

Wide Range of Products:

Monocrystalline PERC module with half-cell design and power output range 385W-405W. Positive tight power tolerance and enhanced module efficiency with 5BB technology

High Reliability:

Guaranteed mechanical resistance to severe weather conditions for reliable power output. Compliant with IEC 61215 and IEC 61730. Severe salt mist, ammonia & blown sand resistance, for seaside, farm and desert environments. Excellent mechanical load 2400Pa & snow load 5400Pa resistance

Traceability:

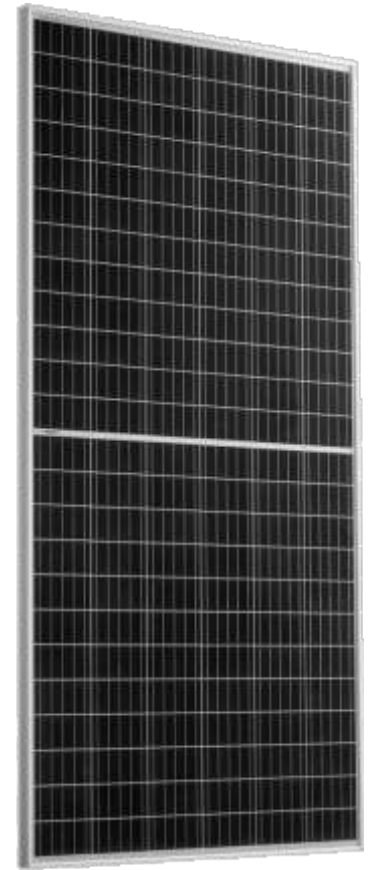
Flash report and embedded bar code ID for each module for complete traceability

Low-light Performance:

Advanced glass and surface texturing ensure excellent performance in low-light environments. Anti-reflective & anti-soiling surface minimize power loss from dirt and dust

Wide Range of Applications:

Independent systems (households, power supplies for remote areas, remotesystems) and grid-connected photovoltaic power stations (residential, commercial, industrial power supply systems)



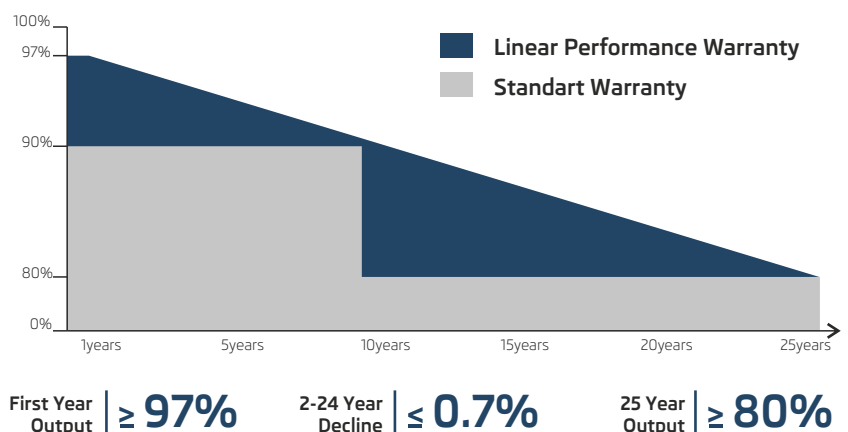
12 years limited product warranty
First year guarantee no less than 97% power output
25 years guarantee no less than 80% power output

Certification



Photon
LABORATORY

Warranty



BS-385M-405M-144



ELECTRICAL CHARACTERISTICS AT STC

MODELS	BS-385M-144	BS-390M-144	BS-395M-144	BS-400M-144	BS-405M-144
Nominal Power (Pmax), W	385	390	395	400	405
Open Circuit Voltage (Voc), V	48,15	48,30	48,45	48,60	48,75
Short Circuit Current (Isc), A	10,20	10,30	10,40	10,50	10,60
Voltage at Nominal Power (Vmp), V	40,15	40,25	40,35	40,45	40,55
Current at Nominal Power (Imp), A	9,60	9,70	9,80	9,90	10,00
Module Efficiency (%)*	19,20	19,40	19,70	19,90	20,20

STC: Irradiance 1000 W/m², Cell Temperature 25°C, Air Mass AM 1.5 according to EN 60904-3.

*Module Efficiency (%): Round-off to the nearest number

ELECTRICAL CHARACTERISTICS AT NMOT

MODELS	BS-385M-144	BS-390M-144	BS-395M-144	BS-400M-144	BS-405M-144
Nominal Power (Pmax), W	288,10	291,80	295,60	299,30	303,10
Open Circuit Voltage (Voc), V	44,30	44,40	44,60	44,70	44,90
Short Circuit Current (Isc), A	8,36	8,45	8,53	8,61	8,69
Voltage at Nominal Power (Vmp), V	36,80	36,90	37,00	37,05	37,14
Current at Nominal Power (Imp), A	7,83	7,92	8,0	8,08	8,16

NMOT: Irradiance at 800 W/m², Ambient Temperature 20°C, Wind Speed 1m/c.

MECHANICAL DATA

Solar cells	Monocrystalline, 5BB
Cell configuration	144 cells (6x12+6x12)
Module dimensions	2015x996x40mm
Weight	23kg
Superstrate	High Transmission, Low Iron, Tempered ARC Glass
Substrate	White Back-sheet
Frame	Anodized Aluminium Alloy type 6063T5, Silver Color
J-Box	Potted, IP68, 1500VDC, 3 Schottky bypass diodes
Cables	4.0 mm ² (12AWG), Positive(+)270mm, Negative(-)270mm

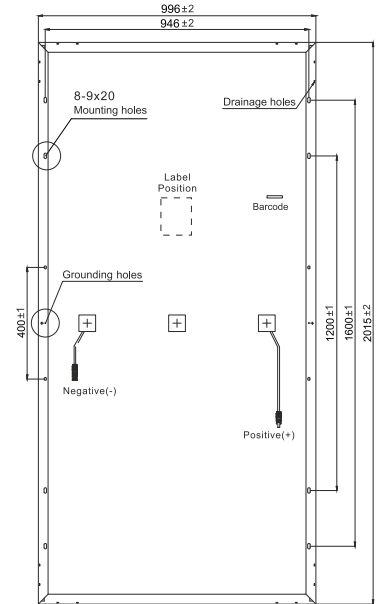
TEMPERATURE & MAXIMUM RATINGS

Nominal Module Operating Temperature (NMOT)	45°C±2°C
Temperature Coefficient of Voc	-0,29%/°C
Temperature Coefficient of Isc	0,05%/°C
Temperature Coefficient of Pmax	-0,37%/°C
Operational Temperature	-40°C-+85°C
Maximum System Voltage	1500VDC
Max Series Fuse Rating	20A
Limiting Reverse Current	20A

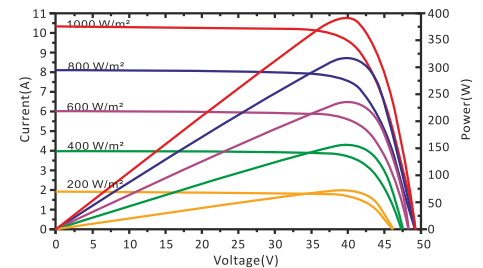
PACKAGING CONFIGURATION

	40ft	20ft
Number of modules per container	594	270
Number of modules per pallet	27	27
Number of pallets per container	22	10
Packaging box dimensions (LxWxH), mm	2040x1130x1130	2040x1130x1130
Box gross weight, kg	670	670

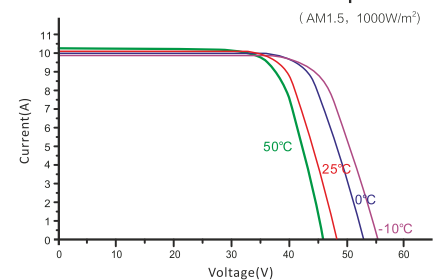
Dimensions of PV Module Unit: mm



I-V characteristics at different irradiances



I-V characteristics at different temperatures



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