

TECHNICAL DATA



Series	Type	Power
36 P XXX (XXX = 40 TO 125)	BBS P 40- P 125	40~125 Watt

Module Series	BBS P 40	BBS P 50	BBS P 60	BBS P 75	BBS P 100	BBS P 125
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Electrical Characteristics at STC:

Maximum Power Pmax (Wp)	40	50	60	75	100	125
Maximum Voltage Vmpp (V)	18	18	18	18	18	18
Maximum Current Impp(A)	2.22	2.78	3.34	4.18	5.56	6.95
Open Circuit Voltage Voc (V)	22	22	22	22	22	22
Short Circuit Current Isc(A)	2.56	3.15	3.71	4.55	5.93	7.31
Module Efficiency(%)	13.00	14.00	14.00	14.40	14.70	15.20

STC : 1000W/m2 irradiance , 25°C cell temperature , AM1.5G spectrum according to EN 60904-3
Average relative efficiency reduction of <5% for every 200W/m² reduction in Irradiance, according to EN 60904-1

Electrical Characteristics at NOCT:

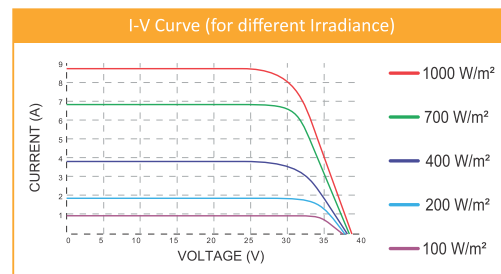
Maximum Power Pmax (Wp)	28.7	35.8	43.0	53.8	72.0	90.9
Maximum Voltage Vmpp (V)	16.41	16.41	16.41	16.41	16.41	16.41
Maximum Current Impp(A)	1.75	2.18	2.62	3.28	4.39	5.54
Open Circuit Voltage Voc (V)	19.93	19.93	19.93	19.93	19.93	19.93
Short Circuit Current Isc(A)	1.98	2.39	2.86	3.56	4.81	6.02

NOCT : 800W/m2 irradiance , 20°C ambient temperature, Wind Speed 1m/sec

Dimension(LxWxH)(in mm)	475x670x22	550x665x22	650x670x22	780x670x35	1015x670x35	1245x670x35
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Temperature coefficient (Tc) and permissible operating conditions

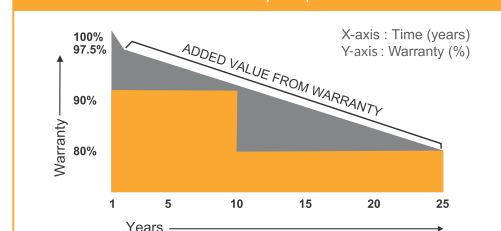
Tc of Open Circuit Voltage (β)	-0.31%/°C ± 0.02
Tc of Short circuit Current (α)	0.057%/°C ± 0.01
Tc of Power (γ)	-0.41%/°C ± 0.02
NOCT	45 ± 2°C
Temperature Range	-40°C to + 85°C
Maximum System Voltage	600/1000 V DC
Limiting Reverse Current (Ir)	3/6/9.0 A



Mechanical Data

Solar Cells	36 Polycrystalline solar cells ,4BB
Junction Box	IP 65 rated with 2 bypass diodes
Superstrate (Glass)	3.2 mm high transmission low iron tempered (AR coated)
Cell encapsulant	EVA (Ethylene Vinyl Acetate) – FC/UFC
Back Sheet	Composite Film – White (Black & Transparent optional)**
Frame	Silver Anodized Aluminum Frame with twin wall profile (Black Optional)**
Application class	Class A (safety class II)
Mechanical Load Test	Sustain heavy wind & Snow Loads (2400 Pa & 5400 Pa or 550 Kg/m ²) Maximum diameter of 24 mm with hail impact of 83 km/h

Warranty Graph



Product Warranty: 5 Years
Performance Warranty: Guaranteed Power output of 90% warranty for 10 years and 80% for 25 years

Approvals and certificates

Products:	IEC 61215 Ed 2, ROHS, IEC 61730, IEC 61701, CE, UL 1703, CEC, CE,
Manufacturing:	ISO 9001:2015, ISO 14001: 2015