

DACABLUE SOLAR SYSTEMS

Monocrystalline Solar Panels

Solar Powering A Green Future!



A. Solar Cell	B. Glass
C. Encapsulant	D. Tadlar
E. Fiberglass	F. Interconnect Ribbon
G. Edge Seal	H. Frame

- SP30W - 30 watt Solar Panel
- SP50W - 50 watt Solar Panel
- SP75W - 75 watt Solar Panel
- SP85W - 85 watt Solar Panel
- SP110W - 110 watt Solar Panel
- SP230W - 230 watt Solar Panel

Dacablue Solar Panels are designed and manufactured for use in a wide range of on-grid and off-grid residential, commercial, industrial, and other solar power generation systems.

Product Benefits

- Applies to commercial, residential and utility scale applications.
- Easily installed on the ground, roof, building face or tracking system.
- Designed and manufactured at an ISO 9001 certified factory.
- Junction boxes for quick installation.
- Integrated bypass diodes to protect solar cell circuit from hot spots during partial shading.
- Anodized aluminum frame improves load resistance capability for heavy wind loads.
- Low power tolerance of +/- 3% helps higher output power by reducing module string mismatch losses.
- Highly transparent, low-iron, tempered glass, and antireflective coating increases energy yield

Product Warranty

90% of power output for the first 10 years of the solar modules life and 80% for the next 15 years; a total of 25-year limited warranty. In addition to this performance guarantee, we are proud to offer our customers up to 3 years warranty on materials and workmanship!

SP30W – 12 Volt 30 Watt Monocrystalline Solar Panel

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Standard Test Conditions

AM	1.5
Irradiation	1000W/m ²
Tc	25



Electrical Characteristics

Module Type		30M
Max power Watt (Peak)	Pm(W)	30W
Power Tolerance	(%)	+/- 3
Max System Voltage	(VDC)	715
Max Power Voltage	Vmp (V)	17.2
Max Power Current	Imp (A)	1.74
Open Circuit Voltage	Voc (V)	21.6
Short Circuit Current	Isc (A)	1.94



Specification (Mechanical Characteristics)

Dimensions: Length*Width*Height	mm	426×680×30
Weight	Kg	3.2KG
Frame(type, material)		Aluminum Alloy
Front glass		High Transmission, Low Iron, Tempered Glass, 3.2mm

SP50W – 12 Volt 50 Watt Monocrystalline Solar Panel

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Standard Test Conditions



AM	1.5
Irradiation	1000W/m ²
Tc	25

Electrical Characteristics

Module Type		50M
Max power Watt (Peak)	Pm(W)	50W
Power Tolerance	(%)	+/- 3
Max System Voltage	(VDC)	715
Max Power Voltage	Vmp (V)	18
Max Power Current	Imp (A)	2.78
Open Circuit Voltage	Voc (V)	22
Short Circuit Current	Isc (A)	3.2



Specification (Mechanical Characteristics)

Dimensions: Length*Width*Height	mm	719x555x35
Weight	Kg	5KG
Frame(type, material)		Aluminum Alloy
Front glass		High Transmission, Low Iron, Tempered Glass,3.2mm

Standard Test Conditions

AM	1.5
Irradiation	1000W/m ²
Tc	25

SP75W - 12 Volt 75 Watt
Monocrystalline Solar Panel

Electrical Characteristic

Module Type		75M
Max power Watt (Peak)	Pm(W)	75W
Power Tolerance	(%)	+/- 3
Max System Voltage	(VDC)	1000
Max Power Voltage	Vmp (V)	17.3
Max Power Current	Imp (A)	4.35
Open Circuit Voltage	Voc (V)	21.7
Short Circuit Current	Isc (A)	4.72



Specification (Mechanical Characteristics)



Dimensions: Length*Width*Height	mm	1195x541x30
Weight	Kg	8KG
Cable type, Diameter and Length		Copper core cable, 4mm ² , TUV certified, 900mm
Frame(type, material)		Aluminum Alloy
Front glass		High Transmission, Low Iron, Tempered Glass, 3.2mm

Absolute Ratings

Dielectric Insulation Voltage	VDC	3000 max
Operating Temperature	°C	-45 to +85
Storage Temperature	°C	-45 to +85

Standard Test Conditions

AM	1.5
Irradiation	1000W/m ²
Tc	25

SP85W - 12 Volt 85 Watt
Monocrystalline Solar Panel

Electrical Characteristic

Module Type		85M
Max power Watt (Peak)	Pm(W)	85W
Power Tolerance	(%)	+/- 3
Max System Voltage	(VDC)	1000
Max Power Voltage	Vmp (V)	17.8
Max Power Current	Imp (A)	4.8
Open Circuit Voltage	Voc (V)	22.2
Short Circuit Current	Isc (A)	5.15



Specification (Mechanical Characteristics)



Dimensions: Length*Width*Height	mm	1195x541x30
Weight	Kg	8KG
Cable type, Diameter and Length		Copper core cable, 4mm ² , TUV certified, 900mm
Frame(type, material)		Aluminum Alloy
Front glass		High Transmission, Low Iron, Tempered Glass, 3.2mm

Absolute Ratings

Dielectric Insulation Voltage	VDC	3000 max
Operating Temperature	°C	-45 to +85
Storage Temperature	°C	-45 to +85

Standard Test Conditions

AM	1.5
Irradiation	1000W/m ²
Tc	25

SP110W - 12 Volt 110 Watt
Monocrystalline Solar Panel



Electrical Characteristic

Module Type		110M
Max power Watt (Peak)	Pm(W)	110W
Power Tolerance	(%)	+/- 3
Max System Voltage	(VDC)	1000
Max Power Voltage	Vmp (V)	17.3
Max Power Current	Imp (A)	6.42
Open Circuit Voltage	Voc (V)	21.6
Short Circuit Current	Isc (A)	7.46

Specification(Mechanical Characteristics)



Dimensions: Length*Width*Height	mm	1480 x 670 x 30
Weight	Kg	8KG
Cable type, Diameter and Length		Copper core cable, 4mm ² , TUV certified, 900mm
Frame(type, material)		Aluminum Alloy
Front glass		High Transmission, Low Iron, Tempered Glass,3.2mm

Absolute Ratings

Dielectric Insulation Voltage	VDC	3000 max
Operating Temperature	°C	-45 to +85
Storage Temperature	°C	-45 to +85

Standard Test Conditions

AM	1.5
Irradiation	1000W/m ²
Tc	25

SP230W - 24 Volt 230 Watt
Monocrystalline Solar Panel



Electrical Characteristic

Module Type		230M
Max power Watt (Peak)	Pm(W)	230W
Power Tolerance	(%)	+/- 3
Max System Voltage	(VDC)	1000
Max Power Voltage	Vmp (V)	30.00
Max Power Current	Imp (A)	7.66
Open Circuit Voltage	Voc (V)	37
Short Circuit Current	Isc (A)	8.18

Specification(Mechanical Characteristics)



Dimensions: Length*Width*Height	mm	1650x992x46
Weight	Kg	19KG
Cable type, Diameter and Length		Copper core cable, 4mm ² , TUV certified, 900mm
Frame(type, material)		Aluminum Alloy
Front glass		High Transmission, Low Iron, Tempered Glass,3.2mm

Absolute Ratings

Dielectric Insulation Voltage	VDC	3000 max
Operating Temperature	°C	-45 to +85
Storage Temperature	°C	-45 to +85