



Planet Sun
PHOTOVOLTAIC SYSTEM
Beghelli

Pronto Sole 200W

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200W of Solar Power provides enough energy to run a water pump, power flood lights, a series of ground lights for path lighting or light up remote signage. Included in this kit are two 100W Solar Modules, a charge controller with a display screen for battery information, and all cables and fuses needed to properly wire and protect your hardware. Depending on your needs - the system can be wired in 12V or 24V. Beghelli will custom design the kit and provide batteries, poles and mounting recommendations based upon your specific needs.

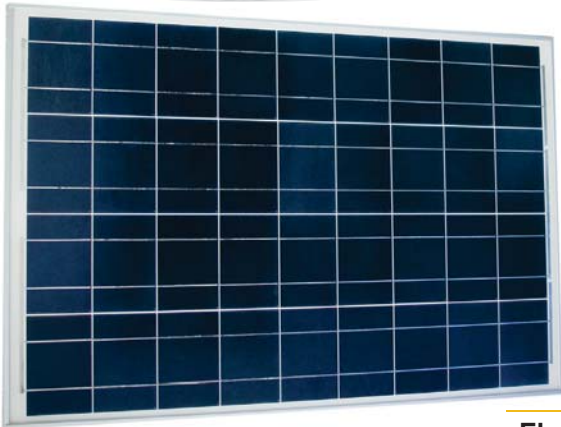


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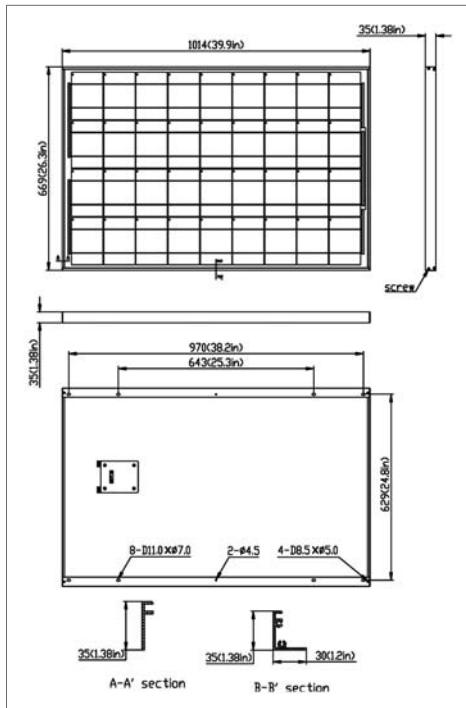
2X 100W Solar Modules

Features:

- IEC61215, TUV certification
- UL 1703 certification, ETL Class I, Division 2, Groups C and D certification
- Using high efficiency 6" Multicrystalline cells.
- Using low iron tempered glass and an EVA pottant with TPT back sheet to encapsulated cells.
- Anodized aluminum frame protected structural strength.
- 10 years limited warranty of 90% power output and 25 years limited warranty of 80% power output.



Dimensional Drawings



Electrical Characteristics SPM100P

Power at STC(P _m)	100W
Maximum power voltage(V _{pm})	18.6V
Maximum power current(I _{pm})	5.38A
Open circuit voltage(V _{oc})	22.8V
Short circuit current(I _{sc})	5.76A
Tolerance	5%
Module efficiency	14.8%
Standard test conditions	Temperature 25°C, Irradiance 1000W/m ² , AM=1.5
Maximum system voltage	1000V DC
Temperature coefficient	I _{sc} :0.05%/K V _{oc} :-0.36%/K P _{max} :-0.46%/K
Series fuse	Rating 10A

Specifications

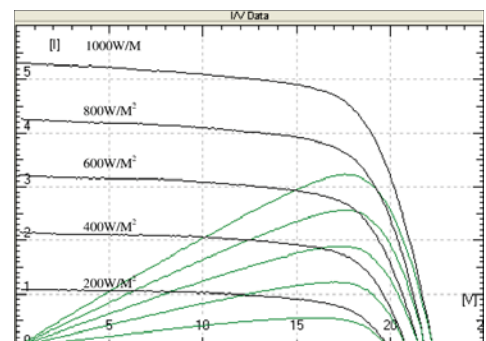
Cell	Multicrystalline silicon solar cell, (156mm x 104mm)
No. of cell and connection	36 (4x9)
Dimension	1014mm(39.9in) x 669mm(26.3in) x 35mm(1.38in)
Weight	9.0KG

Ambient Conditions

Operating Temperature	-40°C to +85°C
Storage Humidity	<90%

Output

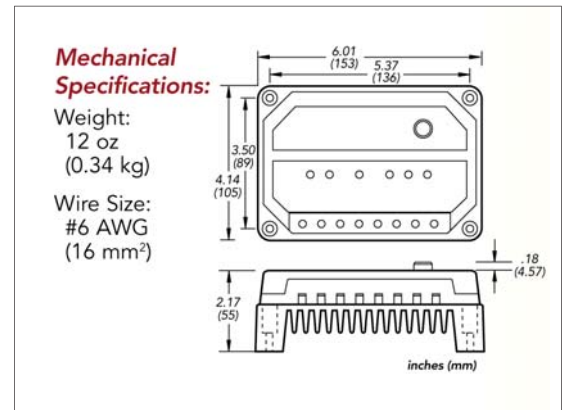
Type of output terminal	Junction box
Cable Length	



PV Solar Charge Controller

Key Features and Benefits:

- Versions available: 15 amp 12 / 24 volt negative or positive ground
- Estimated 15 year life
- PWM series battery charging (not shunt)
- 3-position battery select: gel, sealed or flooded
- Very accurate control and measurement
- Jumper to eliminate telecom noise
- Parallel for up to 300 amps
- Temperature compensation
- Tropicalization: conformal coating, stainlesssteel fasteners & anodized aluminum heat sink
- No switching or measurement in the grounded leg
- 100% solid state
- Very low voltage drops
- Current compensated low voltage disconnect (LVD)
- LED's indicate battery status and faults
- Capable of 25% overloads
- Remote battery voltage sense terminals



Electrical Characteristics

Rated Solar Current	15A
Rated Load Current	15A
System Voltage	12/24V
Options:	
Digital Meter	Yes
Positive Ground	No
Remote Temp. Probe	Yes

Battery Voltage Setpoints

	Gel	Sealed	Flooded
Regulation Voltage	14.0	14.15	14.4
	13.7	13.7	13.7
	n/a	14.35	14.9/15.1
	11.4	11.4	11.4
	12.6	12.6	12.6

Note: values are for 12V. Use 2X for 24V and 4X for 48V

Electrical Specifications:

	12V
Temp. Comp. (mV/°C)*	-30mV
Accuracy	40mV
Min. voltage to operate	8V
Self-consumption	22mA
LVD current coefficient**	-20mV
charge algorithm	PWM, constant voltage
Operating temperature	-40°C to +60°C
Digital Display	
Operating Temperature	-30°C to +85°C
Voltage accuracy	0.5%
Current Accuracy	2.0%
Self-consumption	1mA

* 25°C reference; ** per amp of load

*"Only when I saw the Earth from space,
in all its ineffable beauty and fragility,
did I realize that humankind's most urgent task is
to cherish and preserve it for future generations."*

*- Sigmund Jahn
German Cosmonaut*



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