Pronto Sole Bus Stop Kit 100W

The 30W kit is an ideal solution for Bus Stops. It provides 20W of Signage Lighting and three 3.6W LED downlights to illuminate the waiting area. The signage kit will brightly uplight your sign board, creating a valuable space for visual communication. The Kit has an option to automatically turn on when the sun goes down and turn off in the morning. Customize the unit by setting the timer to match your local bus schedule - this saves battery cost by shutting the unit off earlier in the night. The 12V system highlighted here will run on batteries for no less than four days in heavily overcast conditions based in South Florida, USA. Beghelli will customize the system to your city - maximizing efficiency. Why not make your current bus stops viable for advertising revenue and safer for the general public?



www.beghelli.com



Beghelli 100W Solar Module



- IEC61215, TUV certification
- UL 1703 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.

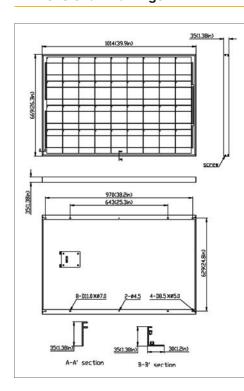
Electrical Characterisitics SPM100P Power at STC(Pm) 100W Maximum power voltage(Vpm) 18.6V Maximum power current(Ipm) 5.38A Open circuit voltage(Voc) 22.8V Short circuit current(Isc) 5.76A Tolerance 5% Module efficiency 14.8% Standard test conditions Temperature 25°C, Irradiance 1000W/m², AM=1.5 Maximum system voltage 1000V DC Series fuse Rating 10A Temperature coefficient Isc:0.05%/K Voc:-0.36%/K Pmax:-0.46%/K

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	



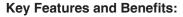


Dimensional Drawings



Beghelli PV Solar Charge Controller





Longer Battery Life

- Advanced PWM charging
- Series design (not shunt) for cool operation
- · 4-stage charging: bulk, absorption, float, equalize
- Optimized sealed or flooded battery set points
- Temperature compensated charging
- Low voltage load disconnect on several versions



- Temperature rating of -40°C to +60°C
- Epoxy encapsulation for protection against humidity and dust ingress
- Corrosion protection: marine rated terminals and anodized aluminum case
- Certified for use in hazardous locations

- A			Part of the second seco	7
	Solar	Load	System	LVD

	Solar Current	Load Current	System Voltage	LVD
SS-10L-12V	10A	10A	12V	Yes

Certifications:

- ETL Listed to UL 1741 and CSA C22.2 No. 107.1-01
- Hazardous Locations: Class 1, Division 2, Groups A,B,C,D CSA C22.2#213
- EMC Directives: Immunity, emissions, safety
- FCC: Class B Part 15
- CE
- RoHS
- ISO 9000

Electrical Characterisitics			
Max. PV & Load Rating	Per Above		
System voltage	12		
Min. battery voltage	1 Volt		
Regulation Voltage	12V		
Sealed battery	14.1V		
Load Disconnect	11.5V		
LVD Reconnect	12.6V		
Max. Solar Voltage	12V battery - 30V		
Load in-rush capability	65 amps		
Self consumption	< 8 mA		
Voltage Accuracy	12V: +/-25 mV		
Transient Surge Protection	1500W per connection		





Beghelli PV 183 Ah Battery



made in usa L: 20.75" (527mm), W: 8.44" (214mm), H: 10.82" (275mm)

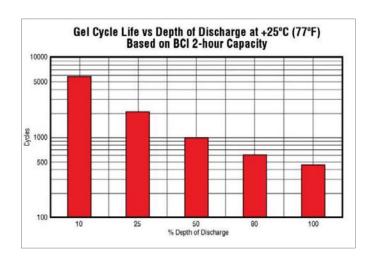
Key Features and Benefits:

Valve-Regulated	Sealed construction eliminates periodic watering, corrosive acid fumes, & spills
Gelled Electrolyte Electrolyte will not stratify	
Positive and Negative Plate	Lead calcium
Self-Discharge	Less than 2% per month stand loss means little deterioration during transport & storage
Exclusive IPF® Technology	Optimizes power capacity, cell consistency, and long-term reliability
Rated Non-Spillable by ICAO, IATA, and DOT	Transports easily and safely by air, no special containers needed

Renewable Energy • Water pumping • Residential • Communications • Cathodic protection • Remote monitoring • Refrigeration • Lighting • Aids to navigation • Wind generation

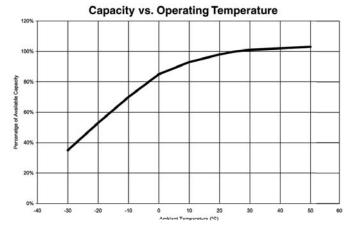
Electrical Characterisitics

Nominal Voltage (V)	12V
*Capacity at C/100	210Ah
* Capacity at C/20	183 Ah
Weight	127lbs. (57.6 kg)
Plate Alloy	Lead Calcium
Posts	Forged Terminals & Bushings
Container/Cover	Polypropylene
Operating Temperature Range	-76°F, (-60°C) - 140°F (60°C)
Vent	self-sealing
electrolyte	sulfuric acid thixotropic gel
Terminal	(B) T876
Rated UN2794, we filled with acid	



Photovoltaic Charging Parameters			
Bulk Charge	Max Current (amps)	30% of 20 H Rate	
Absorption (Regulation) Charge	Constant Voltage	2.35 - 2.4C vpc	
Float Charge	Constant Voltage	2.25 vpc ± .01	
Equalize Charge	Constant Voltage	2.30 - 2.43 vpc	
Temperature Coefficient	0.003 v / °C		

Cut-off parameters per charge & equalize intervals are application specific and will vary dependent upon site specific characteristics such as temperature, days of autonomy, array to load ratio, ect.



Capacity vs. Operating Temperatures: Above are the changes in capacity for wider ambient temperature range, giving the available capacity, as a percentage of the rated capacity, at different ambient temperatures. The curves show the behavior of the battery after a number of cycles.

Beghelli 12V Photocell



Key Features and Benefits:

Applications

- Garden lighting
- Boats
- Caravans
- Filament & Fluorescent lamps
- Solar

Features

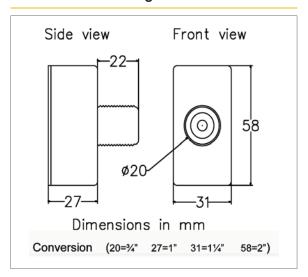
- Compact size (see diagram below)
- Long life contacts made from Silver Oxide
- Defaults to lighting switched off
- RoHS Compliant



Specifications

	Minimum	Typical	Maximum	Unit
Control load	100	****	5000*	ma
Operating voltage	11	12	14.5	Volts dc
Power consumption (on)	26	28	29	ma
Standby power (off)	2.8	3.2	3.5	ma
Switch On level	40	50	60	Lux
Switch Off level	60	70	80	Lux
Time delay	4.5	5	5.5	Seconds
Operating Temperature	-25	20	+60	°C
Ingress rating (installed)	****	*IP65	****	IP
Storage Temperature	-40	****	+80	°C
Mounting tread	****	M20	****	mm

Dimensional Drawings



"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



www.beghelli.com

Beghelli USA 3250 Corporate Way Miramar, FL 33025 P: 954 442 6600 / 800 726-4316 F: 954 442 6677