

Solar Bus Shelter

Available with Wi-Fi
hotspot, environmental
sensors, and many
more great features.



**Environmental
Sensors**



**Remote
Management System**



**Easy Installation
& Maintenance**



Smart Sensors



**High Quality
Lithium Battery**



**Powered By
The Sun**

EnGo Solar Bus Shelter

Technical Data Sheet

BUS SHELTER GENERAL SPECIFICATIONS

LED Light	10 W
Solar Power	4x200Wp, Monocrystalline
Battery System	Lithium Battery 12V 120Ah (3x30Ah)
Charge Controller	• 30A 12V-24V MPPT charge controller
Dimensions	2.5 x 3.05 x 1.45 m / 8' 3¼" x 10' 1" x 4' 11¼"
Material	-ASTM A-36 steel (36,000 PSI Min. yield strength) with AWS Standard D1.1-10 welds and AWS 5.1 Class E70S-5 electrodes -6063-T5 aluminum alloy with AWS Standard A1.2-08 welds and AWS/SFA 5.10 Class ER4043 electrodes -Powder coated finish -Tempered glass or metal mesh backing
Additional Features	3 x USB Charging Ports, Wi-Fi Router Color Options Available
Available Upon Request	Environmental Sensors Mesh or Glass Backing

BATTERY MAIN CHARACTERISTICS

Type	LiFePO4
Rated Voltage	12.8 V
Rated Capacity	30 Ah
Dimensions	90 x 205 x 215 mm / 3.5 x 8 x 8.5 in
Weight	5 kg / 11 lbs
Charge Voltage	14.4 +/-0.15 V
BMS Charge Cut Off Voltage	15.6 V
Extreme conditions	-40°C ↔ +60°C / -40°F ↔ +140°F
Standards	UL 1642, IEC 62133, UN 38.3



SOLAR PANEL MAIN CHARACTERISTICS

Maximum Output Power (Pmpp)	200 W
Power Tolerance	+/-5%
Solar Cell Efficiency	≥24%
Voltage at max power (Vmp)	21.0 V
Current at max power(Imp)	9.52 A
Open Circuit Voltage (Voc)	25.2 V
Short Circuit Current (Isc)	10.5 A
Operating Temperature	-40 °C ↔ +85 °C / -40°F ↔ +185°F
Maximum System Voltage	1000 V
Maximum Series Fuse Rating	20 A

SOLAR PANEL MECHANICAL CHARACTERISTICS

Solar Cell Type	Monocrystalline (156.75 x156.75 mm)
Dimensions of Module	1330 x 670 x 35mm 13 x 26.4 x 1.4 in
Structure	Junction Box+TPE+EVA+SOLAR CELL+EVA+ 3.2mm high transmittance tempered glass sealing material
Weight	10.5 kg / 23.15 lbs

SOLAR PANEL TEMPERATURE CHARACTERISTICS

Current Temperature Coefficient	0.05% / °C
Voltage Temperature Coefficient	- 0.35% / °C
Power Temperature Coefficient	- 0.45% / °C

WI-FI ROUTER CHARACTERISTICS

Connection	3G/4G, DHCP/Static IP/PPPOE
Operation Frequency	2400-2483.5M
Antenna Speed	RP-SMA (Internal spiral+hole)
Transmission Speed	150Mbps
Outer Connector	LAN / RS232 / SIM card
Dimensions	83 x 66 x 26 mm 3.27 x 2.6 x 1.02 in
DC Power Supply	6-35V 3A
Consumption	≤ 400 mA
Working Temperature	-20 °C ↔ +75 °C / -4°F ↔ +167°F

CHARGER CONTROLLER MODEL CHARACTERISTICS

Battery Voltage (auto select)	12 V
Rated Charge Current	30 A
Nominal PV Power	390 W / 12 V
Max. PV Open Circuit Voltage	92 V
Self-Consumption	≤ 13 mA (12 V)
Charge Voltage 'Absorption'	14.6 V
Charge Voltage 'Float'	13.8V
Operating Temperature	-40°C ↔ +60°C / -40°F ↔ +140°F
Weight	1.26 kg / 2.78 lbs
Dimensions	53.3 x 105 x 52.1 mm 2.1 x 4.13 x 2.05 in