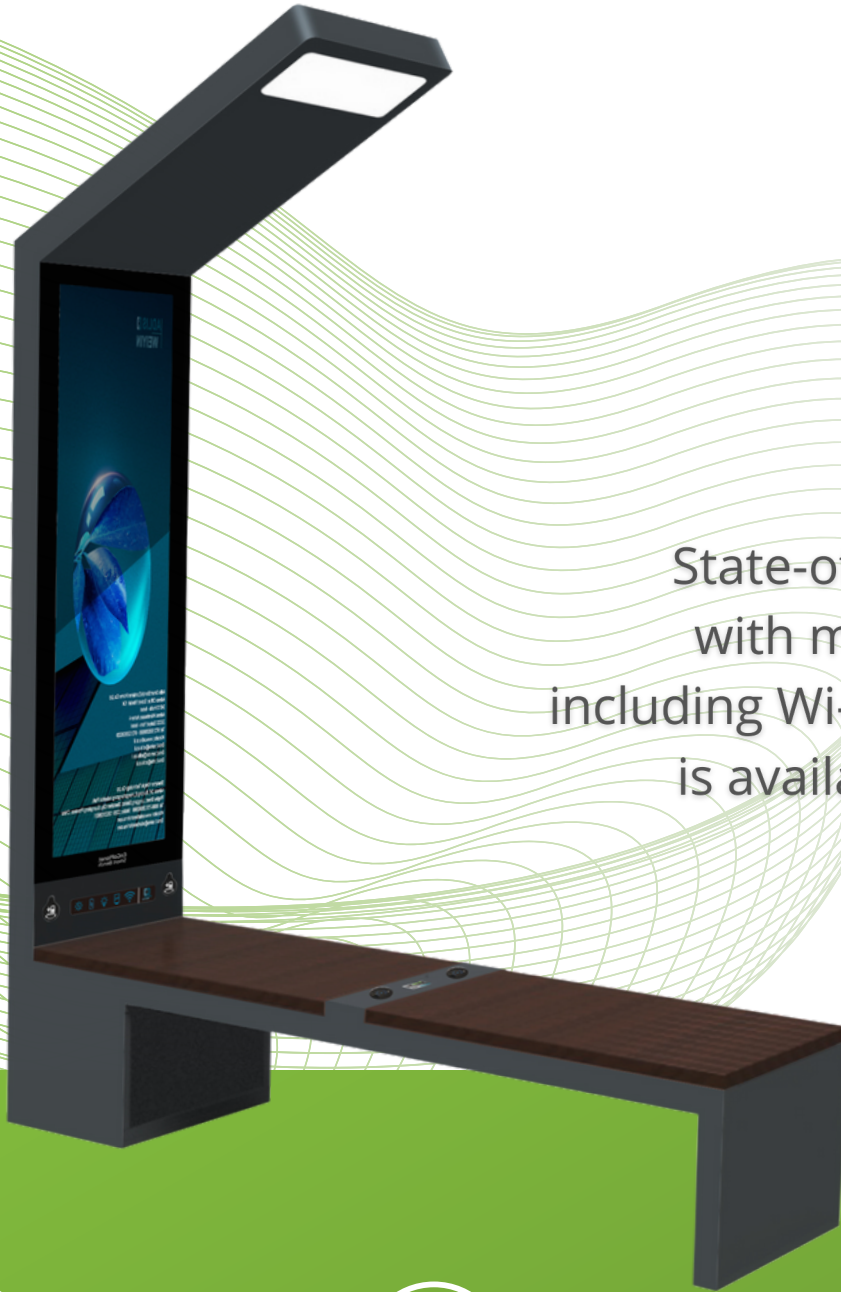


EnGo Smart Solar Bench



State-of-the-art solar benches with many amazing features, including Wi-Fi, charging ports, and is available in black and white



Environmental Sensors



Remote Management System



Easy Installation & Maintenance



Smart Sensors



High Quality Lithium Battery



Powered By The Sun

EnGo Smart Solar Bench

Technical Data Sheet



SMART SOLAR BENCH GENERAL SPECIFICATIONS	
Light Source	LED Bar Light + LED Strip Light
Solar Power	1x135Wp, Monocrystalline
Battery System	Lithium Battery 12V 1x55Ah
Charge Controller	Tracer2606BP
Dimensions	2030 x 686 x 3090 mm 80 x 27 x 121.65 in
Material	Stainless Steel #201 WPC Wood Tempered Glass
Total Net Weight	200 kg / 440.9 lbs
Colors	White - RAL 9003 or Dark Grey - RAL 7016
Additional Features	USB Charging Ports, Wireless Charger Wi-Fi Router, Advertising Display
Available Upon Request	Environmental Sensors

LED BAR LIGHT PARAMETERS	
Power	20 W
Input Voltage	12V DC
Light Source	LED Chip
Beam Angle	180 Degrees
Color	Cool White
Lifespan	30 000 hours
Operating Temperature	-40°C ↔ +65°C / -40°F ↔ +149°F
IP Grade	IP65
Correlated Color Temperature (CCT)	6500K

LED STRIP LIGHT CHARACTERISTICS	
Power	23 W/m
Length	1 m / 3,28 ft
Input Voltage	12/24V DC
Light Source	Chip on board (COB)
Beam Angle	180 Degrees
Correlated Color Temperature (CCT)	10000 K

BATTERY MAIN CHARACTERISTICS	
Type	Lithium battery
Rated Voltage	12.8 V
Rated Capacity	55 Ah
Optimal ambient temperature	0 °C ↔ +45 °C / +32°F ↔ +113°F
Dimensions	295 x 170 x 65 mm / 11.6 x 6.69 x 2.56 in
Weight	9 kg / 19.84 lbs
Charge Voltage	14.2 V
Float Voltage	10.8 V
Extreme conditions	-10 °C ↔ +55 °C / +14°F ↔ +131°F
Standards	CE IEC 62133-2:2017, ISO 9001:2015, ISO 14001:2015, ISO 45001:2018, ISO 50001:2018, CNAS-CS01, YD/T 799-2010.

SOLAR PANEL MAIN CHARACTERISTICS	
Maximum Output Power (Pmpp)	135 Wp
Power Tolerance	+/-5%
Solar Cell Efficiency	21.6%
Voltage at Pmpp (Vmpp)	22.5 V
Current at Pmpp (Impp)	6 A
Open Circuit Voltage (Voc)	27 V
Short Circuit Current (Isc)	6.33 A
Operating Temperature	-20 °C ↔ +60 °C / -4°F ↔ +140°F
Maximum System Voltage	600 V
Maximum Series Fuse Rating	10 A

SOLAR PANEL MECHANICAL CHARACTERISTICS	
Solar Cell Type	Monocrystalline 125 mm
Dimensions of Module	1170 x 679 x 4.2 mm / 46 x 26.7 x 0.17 in
Structure	Front: 3.2mm high transmittance tempered glass sealing Back: PET/TPT
Weight	11.2 kg / 24.69 lbs
Environmental Conditions	Outdoor use without shading in the sun

SOLAR PANEL TEMPERATURE CHARACTERISTICS	
Current Temperature Coefficient	0.065 +/- 0.015 % / °C
Voltage Temperature Coefficient	-160 +/- 10 mV / °C
Power Temperature Coefficient	0.5 +/- 0.05 % / °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 / 3.2 x 2.6 x 1 in
DC Power Supply	6-35V 3A
Consumption	≤ 400 mA
Working Temperature	-20 °C ↔ +75 °C / -4°F ↔ +167°F

CHARGER CONTROLLER MODEL CHARACTERISTICS	
Model	Tracer 2606BP
Battery Voltage (auto select)	12 V DC
Rated Charge Current	10 A
Nominal PV Power	130 W / 12 V
Max. PV Open Circuit Voltage	46V (@25C), 60V max
Self-Consumption	≤ 13 mA (12 V)
Charge Voltage 'Absorption'	14.5 V
Charge Voltage 'Float'	12.8V
Operating Temperature	-40°C ↔ +60°C / -40°F ↔ +140°F
Safety Standards	CE EN 60950-1:2006+A11:2009+A1:2010+A12:2011+A2:2013, IEC 60950-1:2005 (Second Edition) + A1: 2009 + A2: 2013 and EN 61000-6-4:2007+A1:2011, EN61000-6-2:2005 and ROHS 2011/65/EU
Protection Category	IP67
Weight	0.54 kg / 1.19 lbs
Dimensions	124 x 89 x 30 mm / 4.88 x 3.5 x 1.18 in
Communication	RS485