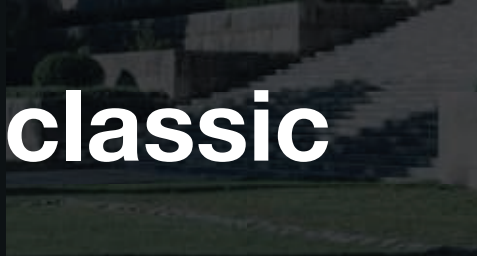# solarbenchclassic
datasheet

Steora Classic is developed as a replacement for all regular street benches around the world.

Core features are PV modules, fast wireless charging, ambient light and environmental sensors. The design is fully modular, with possibilities to change armrests, legs and other parts of the bench, making it adaptable for any location in the world.

Armrests hide two Qi charging spots, with room for additional USB fast chargers compliant with Apple, Huawei and Samsung standards.

Bottom of the seat houses LED strips controlled by an ambient light sensor that tracks natural lighting conditions and turns on automatically.

With a set of extraordinary additional options, the Classic model can become e.g. Mini weather station or even outdoor heating spot during the cold winter days.

Dimensions
1800 x 505 x 635 mm

Weight
55 kg

IK rating
IK08

Materials
alu-zinc, aluminium, hot-dip zinc coated steel [EN10346], galvanized low carbon steel [ISO 2081]

Operating temperature
-20°C to 50°C

Operating Humidity
(RH) 0-100%

Environment
C4/C5* (*on request)

IP rating
IP54/IP2X

Noise level
30 dBA

Maximum load per beam
250kg

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1800

505

440

636

PV MODULES

Combined rated power
100 W
MPPT tracking speed
<100ms
Combined efficiency
50.00%
MPPT for each beam
Yes

QI WIRELESS CHARGING

Rated power
10 W
Range
6 mm
QI efficiency
Up to 80%
QI activation time
<2s

LED AMBIENT LIGHT

Rated power
8 W
Color temperature
4500 K
Dimmable
Yes
Time control light
Yes

LI-ION BATTERY PACK

Total energy
190 Wh
Rated voltage
11.1 V
Max. voltage
12.6 V
Peak power
400 W
Continuous power
300 W
Over current protection
40 A
Over discharge protection
<3 V per cell
Short circuit protection
<100μs
Cell balancing
Yes
State of charge indicator
Yes

SENSORS

Pressure sensor
700 ~ 1100 hPa
Humidity sensor
0 ~ 99 %RH ±2.0 %RH (20~80%RH)
Temperature sensor
-40°C to 85°C ±2 °C
Occupancy sensor trigger
20 kg

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SEATING SURFACE COOLING SYSTEM

Rated power
10 W
Air flow
52 CFM
Temperature trigger
20°C to 45°C
Noise level
30 dBA

INTERNAL SERVER COMMUNICATION SYSTEM

GSM band
850/900/1800/1900 MHz
Transmiting power
Class 4 (2W) at 850/900MHz,
Class 1 (1W) at 1800/1900MHz
GPS type
22 tracking (66 acquisition), GPS L1 C/A code
Accuracy
GPS L1 C/A code