

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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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

Transmitting 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