solarbenchclassic





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

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

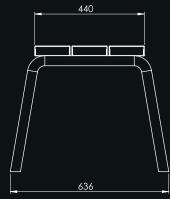
Noise level 30 dBA

Maximum load per beam 250kg

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datasheet





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 Ql efficiency Up to 80% Ql 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 <100us 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





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