TOTEM

by Sunna Design®

Datasheet

IP65 IK08 C€ IK07 (PV)

| LED module | | | | | |
|--|---------------|---------------------------------------|---|--|--|
| Color temperature options Color temperature options Cortificates EN 13032-1; EN 13032-2; EN 13201; EN 60598-1; EN 62471 Technology Photovoltaic module (Crystalline silicon) Power 150 Wp (6*25 Wp) to 200 Wp (8*25 Wp) Electrical specifications (per panel) Panel dimensions Lifespan 25 years Inclination Vertical Structure Certificates EEC 61215; IEC 61730 et Battery technology NiMH battery, maintenance free, very high temperature resistance Voltage Capacity Operating temperature range Lifespan Certificates EN 62133 Technology SunnaCore® Communication Input voltage Max. PV open circuit voltage Max. Po open circuit voltage Max. Po open circuit voltage Max. Po open circuit voltage Max. Pot open circuit voltage Electrical protection Electronic fuse Uriges Uriges Panel dimensions Electronic fuse Electrical protection Electronic fuse Uriges Uriges Uriges Uriges Panel dimensions Electronic fuse Elec | PANEL LIGHTIN | LED module | High efficiency LED light engine - Multichip Technology (IP 67) | | |
| Lifespan S0 000 hours | | Luminous flux | 3200 lumens | | |
| Certificates | | Color temperature options | 5700 K | | |
| Technology | | Lifespan | 50 000 hours | | |
| Power 150 Wp (6*25 Wp) to 200 Wp (8*25 Wp) | | Certificates | EN 13032-1; EN 13032-2; EN 13201; EN 60598-1; EN 62471 | | |
| Electrical specifications (per panel) | | Technology | Photovoltaic module (Crystalline silicon) | | |
| Panel dimensions Lifespan 25 years Inclination Vertical Structure Unframed Certificates IEC 61215; IEC 61730 l et II Battery technology NiMH battery, maintenance free, very high temperature resistance Voltage 24 V Capacity 240 Wh Operating temperature range 40°C to +70°C Lifespan 22 years Certificates EN 62133 Technology SunnaCore® Communication Bluetooth Input voltage 24V Max. PV open circuit voltage 45V Max. charge/discharge current 5A Wiring Marine-grade wiring used for all applications Electrical protection Electronic fuse Lifespan 12 years Certificates 15A Wiring Marine-grade wiring used for all applications Electronic fuse Lifespan 12 years Lifespan 14 years Lifespan 15 years Lifespan 165 with sealed plugs | | Power | 150 Wp (6*25 Wp) to 200 Wp (8*25 Wp) | | |
| Lifespan 25 years Inclination | | Electrical specifications (per panel) | V _{OC} : 17,12 V V _{MPP} : 14,8 V I _{SC} : 1,91 A I _{MPP} : 1,83 A 24 cells | | |
| Structure Unframed Certificates IEC 61215; IEC 61730 I et II Battery technology NiMH battery, maintenance free, very high temperature resistance Voltage 24 V Capacity 240 Wh Operating temperature range -40°C to +70°C Lifespan 12 years Certificates EN 62133 Technology SunnaCore® Communication Bluetooth Input voltage 24V Max. PV open circuit voltage 45V Max. charge/discharge current 5A Wiring Marine-grade wiring used for all applications Electrical protection Electronic fuse Lifespan 12 years Water resistance Operating temperature range -20°C to +70°C | | Panel dimensions | 1000 x 208 mm | | |
| Structure Unframed Certificates IEC 61215; IEC 61730 I et II Battery technology NiMH battery, maintenance free, very high temperature resistance Voltage 24 V Capacity 240 Wh Operating temperature range -40°C to +70°C Lifespan 12 years Certificates EN 62133 Technology SunnaCore® Communication Bluetooth Input voltage 24V Max. PV open circuit voltage 45V Max. charge/discharge current 5A Wiring Marine-grade wiring used for all applications Electrical protection Electronic fuse Lifespan 12 years Water resistance IP65 with sealed plugs Operating temperature range -20°C to +70°C | | Lifespan | 25 years | | |
| Battery technology NiMH battery, maintenance free, very high temperature resistance Voltage Capacity Capacity Operating temperature range Lifespan Certificates EN 62133 Technology Communication Input voltage Max. PV open circuit voltage Max. charge/discharge current Wiring Max. charge/discharge current Wiring Marine-grade wiring used for all applications Electrical protection Lifespan 12 years Communication Bluetooth Input voltage Max. PV open circuit voltage Max. charge/discharge current Wiring Marine-grade wiring used for all applications Electrical protection Lifespan 12 years Water resistance Operating temperature range -20°C to +70°C | | Inclination | Vertical | | |
| Battery technology Voltage Capacity Capacity Operating temperature range Lifespan Certificates Technology Communication Input voltage Max. PV open circuit voltage Max. charge/discharge current Wiring Marine-grade wiring used for all applications Electrical protection Lifespan 12 years Communication Bluetooth Input voltage Max. PV open circuit voltage Max. charge/discharge current Wiring Marine-grade wiring used for all applications Electrical protection Lifespan 12 years Water resistance Operating temperature range | | Structure | Unframed | | |
| Voltage | | Certificates | IEC 61215; IEC 61730 I et II | | |
| Garacity 240 Wh Operating temperature range -40°C to +70°C Lifespan 12 years Certificates EN 62133 Technology SunnaCore® Communication Bluetooth Input voltage 24V Max. PV open circuit voltage 45V Max. charge/discharge current 5A Wiring Marine-grade wiring used for all applications Electrical protection Electronic fuse Lifespan 12 years Water resistance IP65 with sealed plugs Operating temperature range -20°C to +70°C | | Battery technology | NiMH battery, maintenance free, very high temperature resistance | | |
| Certificates EN 62133 Technology Communication Input voltage Max. PV open circuit voltage Max. charge/discharge current Wiring Electrical protection Lifespan Mater resistance Operating temperature range EN 62133 SunnaCore® SunnaCore® SunnaCore® SunnaCore® SunnaCore® SunnaCore® SunnaCore® SunnaCore® Max. PV open circuit voltage A5V Max. PV open circuit voltage Max. PV open circuit voltage A5V Marine-grade wiring used for all applications Electronic fuse IP65 with sealed plugs Operating temperature range | > | Voltage | 24 V | | |
| Certificates EN 62133 Technology Communication Input voltage Max. PV open circuit voltage Max. charge/discharge current Wiring Electrical protection Lifespan Mater resistance Operating temperature range EN 62133 SunnaCore® SunnaCore® SunnaCore® SunnaCore® SunnaCore® SunnaCore® SunnaCore® SunnaCore® Max. PV open circuit voltage A5V Max. PV open circuit voltage Max. PV open circuit voltage A5V Marine-grade wiring used for all applications Electronic fuse IP65 with sealed plugs Operating temperature range | 띮 | Capacity | 240 Wh | | |
| Certificates EN 62133 Technology Communication Input voltage Max. PV open circuit voltage Max. charge/discharge current Wiring Electrical protection Lifespan Mater resistance Operating temperature range EN 62133 SunnaCore® SunnaCore® SunnaCore® SunnaCore® SunnaCore® SunnaCore® SunnaCore® SunnaCore® Max. PV open circuit voltage A5V Max. PV open circuit voltage Max. PV open circuit voltage A5V Marine-grade wiring used for all applications Electronic fuse IP65 with sealed plugs Operating temperature range | Ψ | Operating temperature range | -40°C to +70°C | | |
| Technology Communication Bluetooth Input voltage Max. PV open circuit voltage Max. charge/discharge current Wiring Marine-grade wiring used for all applications Electrical protection Electronic fuse Uifespan Water resistance Operating temperature range SunnaCore® SunnaCore SunnaCore® SunnaCore® SunnaCore® SunnaCore® SunnaCore® SunnaCore SunnaCore® SunnaCore SunnaCore® SunnaCore® SunnaCore® SunnaCore® SunnaCore® SunnaCore SunnaCore® SunnaCore® SunnaCore® SunnaCore® SunnaCore® SunnaCore SunnaCore® SunnaCore SunnaCore® SunnaCore SunnaCore® SunnaCore SunnaCore® SunnaCore SunnaC | ш | Lifespan | 12 years | | |
| Communication Bluetooth Input voltage 24V Max. PV open circuit voltage 45V Max. charge/discharge current 5A Wiring Marine-grade wiring used for all applications Electrical protection Electronic fuse Lifespan 12 years Water resistance IP65 with sealed plugs Operating temperature range -20°C to +70°C | | Certificates | EN 62133 | | |
| Input voltage Max. PV open circuit voltage Max. charge/discharge current Wiring Marine-grade wiring used for all applications Electrical protection Electronic fuse Lifespan Water resistance Operating temperature range 24V Max. PV open circuit voltage 45V Marine-grade wiring used for all applications Electronic fuse IP65 with sealed plugs -20°C to +70°C | | Technology | SunnaCore® | | |
| Max. PV open circuit voltage Max. charge/discharge current Wiring Marine-grade wiring used for all applications Electrical protection Electronic fuse Lifespan Water resistance Operating temperature range 45V Marine-grade wiring used for all applications Electronic fuse 12 years IP65 with sealed plugs -20°C to +70°C | | Communication | Bluetooth | | |
| Max. charge/discharge current Wiring Marine-grade wiring used for all applications Electrical protection Electronic fuse Lifespan Water resistance Operating temperature range Max. charge/discharge current 5A Marine-grade wiring used for all applications Electronic fuse 12 years IP65 with sealed plugs -20°C to +70°C | | Input voltage | 24V | | |
| Max. charge/discharge current Wiring Marine-grade wiring used for all applications Electrical protection Electronic fuse Lifespan Water resistance Operating temperature range 5A Marine-grade wiring used for all applications Electronic fuse 12 years IP65 with sealed plugs -20°C to +70°C | တ္သ | Max. PV open circuit voltage | 45V | | |
| Lifespan 12 years Water resistance IP65 with sealed plugs Operating temperature range -20°C to +70°C | ECTRONI | Max. charge/discharge current | 5A | | |
| Lifespan 12 years Water resistance IP65 with sealed plugs Operating temperature range -20°C to +70°C | | Wiring | Marine-grade wiring used for all applications | | |
| Water resistance Operating temperature range IP65 with sealed plugs -20°C to +70°C | | Electrical protection | Electronic fuse | | |
| Operating temperature range -20°C to +70°C | | Lifespan | 12 years | | |
| | | Water resistance | IP65 with sealed plugs | | |
| Certificates CE; EN61000; EN61547; EN55015; EN62493; EN 62479 EN300328; EN 301489-1 | | Operating temperature range | -20°C to +70°C | | |
| | | Certificates | CE; EN61000; EN61547; EN55015; EN62493; EN 62479 EN300328; EN 301489-1 | | |
| Material Aluminum and Stainless steel | GENERAL | Material | Aluminum and Stainless steel | | |
| Dimensions 90 x 250 x 5000 mm | | Dimensions | 90 x 250 x 5000 mm | | |
| 7 | | Standard | IK07, EN40 | | |
| Weight 130 kg | | Weight | 130 kg | | |
| Version One side lighting | | Version | One side lighting | | |



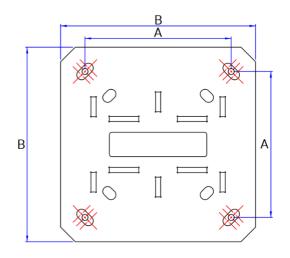
The pictures contained in this document are for guidance only.

TOTEM



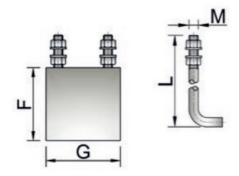
Foundation specifications

FLANGE:



| SPECIFICATIONS | PECIFICATIONS | | |
|----------------|---------------|--|--|
| POLE HEIGHT | 5 m | | |
| Pitch A | 300 mm | | |
| Width B | 400 mm | | |

FOUNDATION BLOCK (Recommendation only):



| SPECIFICATIONS | | |
|------------------|-----------------------|--|
| POLE HEIGHT | 5 m | |
| Concrete density | 350 kg/m ³ | |
| Width G | 700 mm | |
| Height F | 890 mm | |
| Diameter M | M16 | |
| Width L | 300 mm | |





Above foundation specifications are indicative. Sunna Design strongly suggests to request a study based on local standards and soil typology. Sunna Design does not take responsibility if pole foundations are not made according to local standards and law.

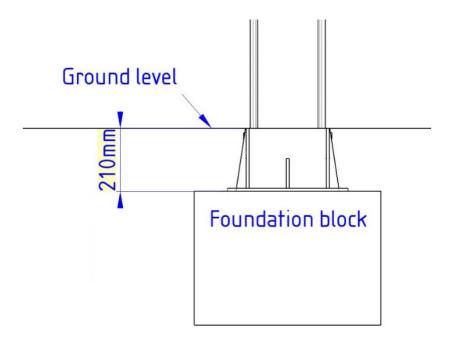
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Installation versions:

BURIED FLANGE:



METAL COVER (optional):



Metal cover finish sold separately.

