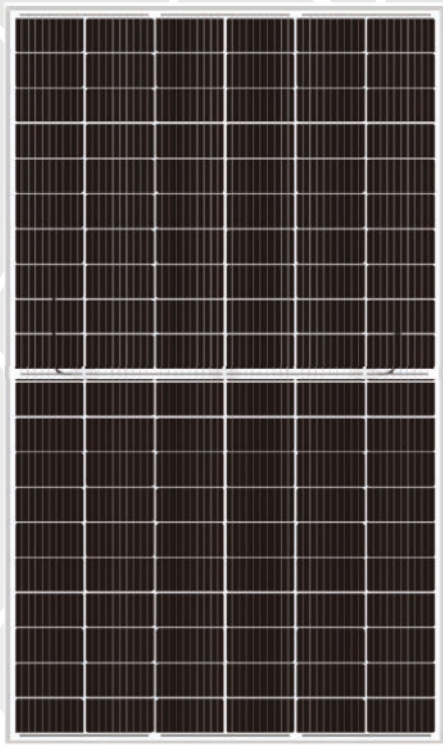




X-HALF CUT Monocrystalline

440 - 445 - 450 - 455 - 460 Wp



120 Half-cut cells Multi Busbar



High Voltage 1500 Vdc



Fire reaction class 1



Power tolerance 0/+5W



Max efficiency 21,3%



Extremely low Temp. Coefficient -0.35%/ °C



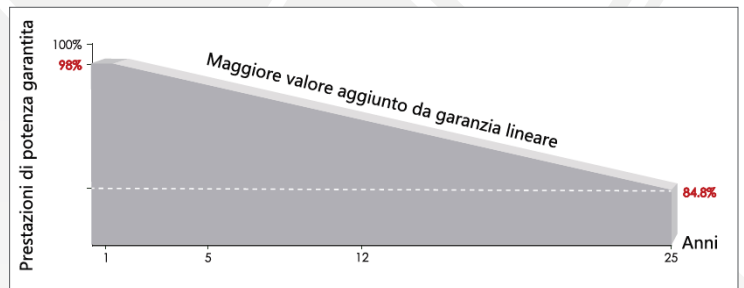
Product Warranty



Linear Warranty

X-HALF CUT is one of a wide range of SUNERG's product. It is manufactured according to IEC 61215, IEC 61730 and CE standards. The innovative multi busbar half-cells guarantee high power per unit, reduce the risk of micro-crack, mismatch and shadow loss, so increasing the reliability of the module.

LINEAR WARRANTY



- look warranty terms -

CORRESPOND TO

IEC 61215 | IEC 61730 | PV CYCLE | CE |

UNI EN ISO 9001:2008
UNI EN ISO 14001:2004
UNI EN ISO 45001:2018

| Quality management system
| Standards for environmental management system
| International standards for occupational health and safety

ELECTRICAL DATA (STC)

| | | XMHC120440K+H | | XMHC120445K+H | | XMHC120450K+H | | XMHC120455K+H | | XMHC120460K+H | |
|-----------------------------------|-------|---------------|---------|---------------|---------|---------------|---------|---------------|---------|---------------|---------|
| | | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT |
| Open circuit Voltage | (Voc) | 41.18 V | 38.71 V | 41.27 V | 38.79 V | 41.46 V | 38.97 V | 41.65 V | 39.15 V | 41.85 V | 39.34 V |
| Voltage a Pmax. | (Vmp) | 34.39 V | 31.98 V | 34.46 V | 32.05 V | 34.62 V | 32.19 V | 34.78 V | 32.35 V | 34.95 V | 32.52 V |
| Short-circuit current | (Isc) | 13.37 A | 10.83 A | 13.42 A | 10.88 A | 13.47 A | 10.91 A | 13.54 A | 10.97 A | 13.59 A | 11.01 A |
| Current at Pmax. | (Imp) | 12.80 A | 10.26 A | 12.92 A | 10.36 A | 13.01 A | 10.41 A | 13.09 A | 10.48 A | 13.17 A | 10.55 A |
| Peak Power (Pmax) Tolerance 0/+5% | | 440 Wp | 328 Wp | 445 Wp | 332 Wp | 450 Wp | 335 Wp | 455 Wp | 339 Wp | 460 Wp | 343 Wp |
| Module Efficiency | | 20.40 % | | 20.60 % | | 20.90 % | | 21.10 % | | 21.30 % | |
| Maximum voltage | | 1500 V DC | | | | | | | | | |
| Maximum series fuse rating | | 25 A | | | | | | | | | |
| Operating Temperature | | -40°C - +85°C | | | | | | | | | |

Tolerance electric measurement ±3%

*** STC** (Standard test conditions)

 Irradiance 1000 w/m², Temperature 25°C, AM = 1.5

*** NOCT** (Nominal Operating Cell Temperature)

 Irradiance 800 W/m², temperature 20°C, wind speed 1m/s

TEMPERATURE COEFFICIENT

| | |
|------------------------------|-------------|
| NOCT | 45 ± 2 °C |
| Pmax Temperature Coefficient | -0.35% / °C |
| Voc Temperature Coefficient | -0.28% / °C |
| Isc Temperature Coefficient | 0.045% / °C |

MECHANICAL CHARACTERISTIC

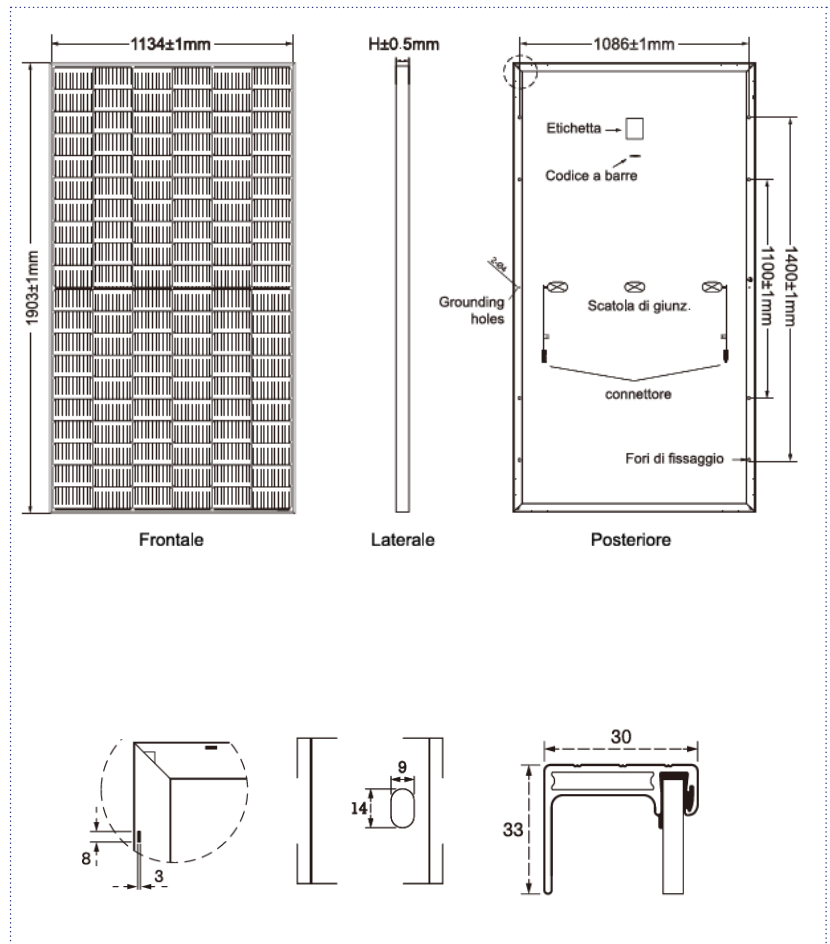
| | |
|------------------|------------------|
| Dimensions (mm) | 1903 x 1134 x 30 |
| Weight (Kg) | 24 |
| Solar cells type | Mono 182x 91 mm |
| No. solar cells | 120 |

PACKING CONFIGURATION

| | |
|-----------------------------|----------|
| Module per Pallet | 36 pcs. |
| Modules per container 40'HQ | 864 pcs. |

GENERAL INFORMATION

| | |
|---------------------------|---|
| Glass | antireflex-coated, high transmission, tempered glass 3.2 mm |
| Frame | Anodized aluminum |
| Junction Box | IP68, 3 bypass diodes |
| Output Cable - Connectors | 1000mm/4.0mm ² |



Sunerg Solar S.r.l. reserves the right to make changes to the technical data of the product without prior notice. The technical details of the form, although included with the utmost care, may contain errors or inaccuracies not attributable to Sunerg Solar S.r.l.



B4850

ENERGY STORAGE SOLUTIONS

Dyness B4850 adopts modular design, tailored for residential application.

Safe and Reliable · Higher Efficiency · Compact Design · Flexible Expansion

Features and Advantages



High Safety LFP

Cell level monitoring and balancing



19" inch

Easy installation & maintenance



Wide Temperature Range

Range of -20~55°C



Expandable

40 modules in parallel with capacity up to 96kWh



Modular Design

Flexible expansion



Easy to Install

Plug and play

Technical Parameters

| Model | B4850 |
|--------------------------------------|---|
| Battery Type | LiFePO4 |
| Nominal Battery Energy | 2.4kWh |
| Nominal Capacity | 50Ah |
| Nominal Voltage | 48V |
| Charging Cut-off vol. | 54V |
| Discharging End-of vol. | 42V |
| Recommended C Rate | 0.5C |
| Recommended Charge/Discharge Current | 25A |
| Max. Power Charge/Discharge Current | 50A |
| Peak Power Charge/Discharge Current | 55A(Protect) |
| Depth of Discharge | 90% |
| Net Weight | 22kg |
| Dimension[W*D*H] | 480*360*90mm |
| Charging Temp. Range | 0~55°C |
| Discharging Temp.Range | -20~55°C |
| Communication | CAN/RS485 |
| Warranty | 10 Years |
| Warranty Document Supplied | Yes |
| Calendar Life ^[1] | ≥6000 Cycles |
| Protection Level | IP20 |
| Expansion | Up to 40 units in parallel |
| Alarms | Overcharge/Overdischarge/Overcurrent/ Overtemperature/Short Circuit |
| Pros | Can be used in both off-grid and hybrid setups, compact design |
| Compatible Inverters | Victron/SMA/Goodwe/Imeon/Solis/SAJ/Growatt/ Luxpower/Voltronic/Deye etc. |
| Certification & Safety Standard | TUV/CE/EN62619/IEC62040/UN38.3/ CEC Accredited/UL1973/CEI-021 |

[1]Test conditions:0.2C Charging/Discharging,@25°C,80% DOD