

SUNRISE 15000 PV



Modular 3-phase 15 kVA
battery powered AC system.

About

The SUNRISE 15000 is the most sustainable alternative to replace diesel generators.

The system consists of one AC Dock 15000 PV, and eight or twelve swappable betterPacks 2000.

To close the loop for the circular economy, the betteries team has implemented these principles for their products:

- Utilize upcycled batteries from electric vehicles
- Designed for repair
- Designed for recycling

Emission-free power
for professionals.

Anywhere.

Features

Automotive Quality

Utilization of automotive components allows for lighter, smaller, and more rugged systems and brings the high-quality standards of the automotive industry to the energy sector.

Connectivity

Offering advanced connectivity and cloud / data services, including asset management capabilities. AI-enabled predictive maintenance capabilities maximize the operability & reliability of the systems and minimize the asset risks.

Holistic System Design

A modular system enabling flexible productive use in stationary as well as mobile applications. Various packaging and transport solutions are ideally suited for the specific needs of our customers in multiple market segments.



SUNRISE 15000 PV - Specification

[PRELIMINARY]

SUNRISE 15000 kit - components			
1 x AC Dock 15000 3P		8 or 12 x betterPack 2000	
Battery Properties			
Upcycled used battery modules from electric vehicles			
Nominal Capacity	18.4 to 28.2 kWh	Chemistry	LMO
Usable Capacity @80% DoD	15.3 to 23.0 kWh	Cyclic Life	1500
Voltage	42 to 58 VDC	Calendaric Life	7 years
Electrical Data - AC		Electrical Data - PV	
Nominal Voltage	400 VAC	MPPT Tracker	3
Nominal Frequency	50/60 Hz	Max. PV Power	3 x 6000 W
Nominal Input Power @25°C	15 kVA	MPPT Voltage	120 to 450 VDC
Nominal Output Power @25°C	15 kVA	Max. Current per MPPT	27 A
Peak Power (1s)	30 kVA	Max. OC Voltage	500 VDC
Interfaces - Electrical		Interfaces - Control/Monitoring	
AC Input	1 x 32 A CEE 3L/N/PE protected by MCB B25	Local HMI	betterUI control panel
AC Output	1 x 32 A CEE 3L/N/PE protected by RCBO B25, 30 mA, Type B	Remote HMI	betteries APP
PV Input	3 x Amphenol PowerLok 4.0		
Environmental		Mechanical Properties	
Operating Temp. Charging	0 to +40°C	Dimensions LxWxH in mm	
Operating Temp. Discharging	-10 to +40°C	AC Dock 15000	400x600x930
Storage Temperature	-20 to +50°C	betterPack pallet (12 bPs)	1200x800x1080
Humidity (non-condensing)	5 to 95% r.H.	Weight	
Altitude	up to 2000 m asl	AC Dock 15000	110 kg
Noise	up to 55 dB	betterPack pallet (12 bPs)	618 kg
		Ingress Protection	IP 54
Standards/ Directives/Application Rules AC Dock 15000 3P		Standards/ Directives/Application Rules betterPack 2000	
2014/30/EU EMC Directive	2014/35/EU LVD	2014/30/EU EMC Directive	2006/66/EG Battery Directive
2014/53/EU RED	DIN EN IEC 61000-6-2:2019/-6-3:2021	2001/95/EG Product Safety Directive	DIN EN IEC 61000-6-2:2019/-6-3:2021
IEC 62109-1/2	IEC 60364-7-704:2017	UN38.3	IEC 62133-2:2017
EN 60529:1991 + A1:2000 + A2:2013	EN 60529:1991 + A1:2000 + A2:2013	ETSI EN 301 489-1 V2.2.3 (2019-11)/-17	IEC 62133-2:2017/AMD1:2021 (testing according to standard)
IEC 60529:1989 + A1:1999 + A2:2013	IEC 60529:1989 + A1:1999 + A2:2013	V3.2.4 (2020-09)	
ETSI EN 301 489-1 V2.2.3 (2019-11)/-17			
V3.2.4 (2020-09)			