SUNRISE 15000

Modular 3-phase 15 kVA
battery powered AC system.

betteries

About

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

The system consists of one AC Dock 15000, and six swappable betterPacks 2000.

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

- Upcycling batteries from electric vehicles
- Designed for repair
- Efficient recycling

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.

Mobile, modular & emission-free power for professionals.

Anywhere.

SUNRISE 15000 - Specification
[PRELIMINARY]

SUNRISE 15000 kit - components	
1 x AC Dock 15000 3P	6 x betterPack 2000

Battery Properties			
Upcycled used battery modules from electric vehicles			
Nominal Capacity	14.1 kWh	Chemistry	LMO
Usable Capacity @80% DoD	11.5 kWh	Cyclic Life	1500
Voltage	42 to 58 VDC	Calendaric life	7 years

Electrical Data - AC	
Nominal Voltage	400 VAC
Nominal Frequency	50/60 Hz
Nominal input power @25°C	7.8 kVA
Nominal output power @25°C	15 kVA
Peak power (1s)	30 kVA

Electrical Data - PV	
MPPT Tracker	3
Max. PV power per MPPT	6000 W
MPPT Voltage	120 to 250 VDC
Max. Current per MPPT	32 A
Max. OC Voltage	250 VDC

Interfaces - electrical	
AC input	1 x 16 A CEE 3L/N/PE protected by MCB B16
AC output	1 x 32 A CEE 3L/N/PE protected by RCBO B25, 30 mA, Type B
PV input	3 x Amphenol PowerLok 4.0

Interfaces – control/monitoring	
Local HMI	betterUI control panel
Remote HMI	betteries APP

Environmental	
Operating Temp. Charging	0 to +40°C
Operating Temp. Discharging	-10 to +40°C
Storage Temperature	-20 to +50°C
Humidity (non-condensing)	5 to 95% r.H.
Altitude	up to 2000 m asl
Noise	up to 55 dB

Mechanical properties	
Dimensions LxWxH	1200x800x930 mm
Weight	388 kg (155 kg w/o batteries)
Ingress Protection	IP 54

Standards/ Directives/Application Rules AC Dock 15000 3P	
2014/30/EU EMC Directive	2014/35/EU LVD
2014/53/EU RED	DIN EN IEC 61000-6-2:2019/-6-3:2021
IEC/EN 62477-1	IEC 60364-7-704:2017
EN 60529:1991 + A1:2000 + A2:2013 IEC 60529:1989 + A1:1999 + A2:2013	EN 60529:1991 + A1:2000 + A2:2013 IEC 60529:1989 + A1:1999 + A2:2013
ETSI EN 301 489-1 V2.2.3 (2019-11)/-17 V3.2.4 (2020-09)	

Standards/ Directives/Application Rules betterPack 2000	
2014/30/EU EMC Directive	2006/66/EG Battery Directive
2001/95/EG Product Safety Directive	DIN EN IEC 61000-6-2:2019/-6-3:2021
UN38.3	IEC 62133-2:2017
ETSI EN 301 489-1 V2.2.3 (2019-11)/-17 V3.2.4 (2020-09	IEC 62133-2:2017/AMD1:2021 (testing according to standard)