



POWER BOX

The multifunctional Power Box is designed for mobile applications. An integrated large power storage enables to supply DC loads without noise and emissions for a long period of time. It perfectly suits military and civil applications.

The modular design allows to design the Power Box exactly to the needs of your project.

We are also able to offer versions with an integrated UPS and additional AC outlet.



APPLICATIONS

- Military Applications (COTS)
- Civil Applications

FEATURES

- Power Box with integrated MIL STD Battery Chargers
- Single Cell Fuse
- No Thermal Runaway
- Active, programmable BMS
- AC-Inputs protected by Circuit Breakers
- DC-Output protected by Circuit Breakers
- Under- and Overvoltage protection (programmable)
- Optional CAN Bus for Battery Surveillance and System integration
- 0W Power consumption in Off Mode
- Carrying Case made from Polyethylene, Shock and Vibration Protected with internal Shock absorbers.
- IP54 when closed
- Stainless Components, Front latch supported by Gas Spring Strut
- Battle switch



High current Lithium Ion Battery



Active BMS



High frequency technology



Light weight, compact size



Full electronic protection



Extended temperature range



Waterproof IP54

SPECIFICATIONS

Battery Charger	
Input Voltage	99 - 276VAC/45 - 430Hz
Input Current max.	2 x 12A @ 230VAC (12A per Phase)
AC Source	Grid or Generator
Output Voltage nominal	28VDC
Charging Current max.	80A 1 Phase 160A 2 Phase
Energy Storage	
Capacity	6KWh (Battery Cells, Li-Ion 18650)
DC Voltage nominal	28VDC
DC Current continuous	168A
DC Current peek	500A
Operating temperature	Discharging -20°C to +50°C Charging 0°C to +50°C
Active BMS	
Overvoltage protection	4.1V/Cell
Deep discharge protection	2.8V/Cell
Charging voltage protection	Automatic pre-charging when the cell voltage is below 2.8V
Temperature protection charging	min 0°C/max 50°C
Temperature protection discharging	min -20°C/max 50°C
Aktive Balancing	Between all cells
Connectors	DC VG96917 AC CEE16
Dimensons (LxWxH)	690 x 630 x 440mm
Weight	84kg
Versions	
Energy Storage	3KWh, 6KWh, 9KWh, 12KWh – extendable in 3KWh steps
Charging Current max.	80ADC, 160ADC, 240ADC
Inverter for AC-Output	230VAC/400W, 230VAC/1.6KW, 230VAC/3.6KW, 400VAC/3Phase 4.8KW
Inverter/Charger with Transfer Switch	
Sinus Inverter (Optional)	
Input Voltage nominal	28VDC
Input Current max.	61.4A
Output Voltage	230VAC optional 100/110/120/VAC
Output Frequency	50Hz 60Hz
Output Power	2000VA (1600W), 15Seconds 3000VA (2400W) Power derating below 125VAC
Additional Options	
USB Connector	5V/1A Charging output
Battery heater for very cold environmental conditions	
CAN BUS for Systems integration	
Indicators	
Connectors as per specification	
Charge controller for solar modules	

