



Technical datasheet

MyReserve Command 20.2

Store energy. Intelligent storage control

MyReserve Command - highly efficient battery converter for DC-side integration between PV string and inverter.

- Connection of 1 to 5 MyReserve Pack battery modules
- Possible expansion to parallelly couple multiple systems
- Peak power of up to 4 kW
- Discharge efficiency of up to 96.7 %
- Fast load response < 1 s (time to supply a load demand)
- Self-learning algorithm for maximum self-consumption
- Safe and easy installation
- Bluetooth-compatible service interface
- certified as per „Safety guidelines for Li-ion household battery systems“



Advantages

- **Best price**
- **Easy installation**
- **Certified safety**
- **Retrofit ready**



SOLARWATT Service

FullCoverage insurance

included if part of a complete MyReserve-System*

Warranty

5 years product warranty

Simple returns policy

as per electrical and electronic equipment legislation

Professional consultation

Experts via hotline or on site

Guarantee of origin

Quality from Germany

EnergyManager ready

perfect system integration

* FullCoverage insurance is available only in selected countries and provided an inverter is used from the list of "Approved Inverters for MyReserve"

Technical data

MyReserve Command 20.2

General information	
Dimensions (W x H x D)	38.4 cm x 23.6 cm x 26 cm
Weight	12.9 kg
Installation	wall installation
Battery module circuitry	in series
Coupling of the battery converter	in DC string of the PV system
Max. number of battery converters in parallel operation (cluster coupling)	6
Mains connection	for mains parallel operation with 1 or 3-phase PV inverter
Max. charge efficiency (PV to BAT)	97.0 %
Max. discharge efficiency (BAT to INV)	96.7 %
Efficiency with direct internal consumption (without battery operation) (PV to INV)	99.8 %
Max. overall efficiency (round trip - charge/discharge)	92 %
Number of PV inputs, DC in	1
Connection technology, DC in/ DC out	WMC4 (Weidmüller) included in the scope of delivery
Supply voltage/frequency, AC in	220-240 VAC, 50-60 Hz
Connection technology, AC in	Cold-device plug connector, included in supply package
Data communication connection technology	RJ45 (CAN), included in the scope of delivery
Internal consumption in sleep mode	max. 5 W
Internal consumption in operating mode	max. 15 W
Step response (time to supply a load demand)	< 1 s
Dead time (time to stop discharging)	0.1 s
Communication	LED status display, Bluetooth, optional EnergyManager Portal
FullCoverage Insurance ¹⁾	5 years included
Warranty	5 years

Supported devices	
PV inverter	all standard string inverters compatible with MyReserve Command technical design parameters
Battery	MyReserve Pack (22.2 / 24.3)
Current sensor	AC-Sensor (50 / 63 / 250 / flex)
DC current source	crystalline/amorphous Si- PV-modules

Environmental and ambient conditions	
Environmental temperature range	-10°C bis 45°C
Relative air humidity	≤ 85% non-condensing
IP rating	IP31
Protection class	I
Overvoltage category	II
Installation location	Up to 2,000 m above sea level, indoor room

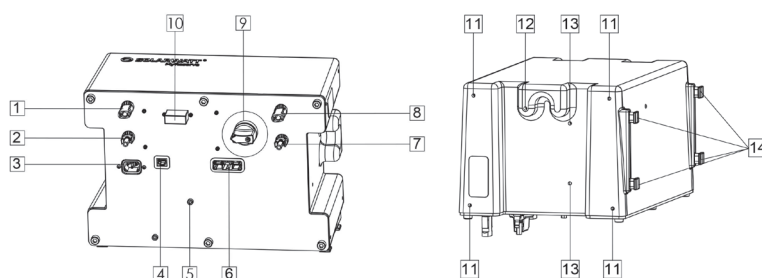
Certifications and standards	
Tested by accredited laboratories according to:	
E DIN EN 62619:2014 (VDE 0510-39)	
DIN EN 50272-1:2011 (VDE 0510-1)	
DIN EN 62109-1:2011 (VDE 0126-14-1)	
DIN EN 61000-6-1:2007 (VDE 0839-6-1)	
DIN EN 61000-6-3:2011 (VDE 6/3/0839)	

In compliance with:

EU Directives (CE): 2014/35/EU (Low-voltage), 2014/30/EU (EMC), 2011/65/EU (RoHS, only AC Sensor 50, AC Sensor 63)
 KIT short checklist for Li-ion household battery systems (150 points)
 VDE AR 2510-2 (in connection with VDE-AR-N 4105-compliant PV inverters)
 CEI 0-21 (in connection with CEI 0-21-compliant PV inverters)

Electrical data					
Number of battery modules to be connected	1	2	3	4	5
Max. permissible PV input voltage	650 V	900 V			
Min. PV input voltage Umpp (under STC)	150 V	200 V	240 V	290 V	340 V
Max. permissible PV input current Idc	20 A				
Max. charging and discharging current	16 A				
Max. charge and discharge power ²⁾	0.5-0.8 kW	1.0-1.6 kW	1.5-2.4 kW	2.0-3.2 kW	2.5-4.0 kW

Configuration



Label	
1	INV (+) positive inverter terminal
2	INV (-) negative inverter terminal
3	230V AC AC power supply
4	CAN Data communication for AC sensor (RJ45)
5	PE Ground connection
6	BAT Battery connection
7	PV (-) negative PV-string terminal
8	PV (+) positive PV-string terminal
9	ON/OFF DC disconnect
10	STATUS Status LED/ Bluetooth antenna
11	Fastening holes for protective cover
12	Ground connection
13	Fastening holes
14	Mounting bracket

required accessory: Accessory Kit MyReserve Command, AC-Sensor