

MyReserve Command 20.2

SOLARWATT Energy Systems

THE ENERGY MATRIX IS HERE. MYRESERVE COMMAND 20.2

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

- Connection of 1 to 5 MyReserve Pack battery modules
- Possible expansion via software-update to parallelly couple multiple systems
- Peak output of up to 4 kW
- Discharge efficiency of up to 96.7 %
- Fast step response < 1 s (time to supply a load demand)
- Self-learning operating software for internal consumption optimization
- Safe and easy installation and maintenance
- Bluetooth-compatible service interface
- Safety: certified as per "Safety guidelines for Li-ion household battery systems"

Product features

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

SOLARWATT Service



SOLARWATT FullCoverage

Included with purchase as a complete system*



Professional consultation

Experts via hotline or on site



Warranty

Product warranty



Guarantee of origin

Quality from Germany



Simple returns policy

as per electrical and electronic equipment legislation



EnergyManager-ready

Perfect system integration



* provided an inverter is used from the list of "Approved Inverters for MyReserve".

Technical Data | MyReserve Command 20.2

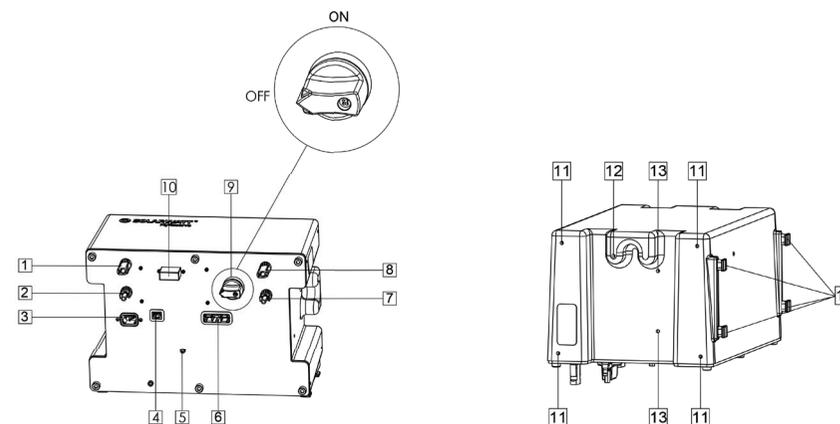
GENERAL INFORMATION					
Model name	MyReserve Command 20.2				
Number of battery modules to be connected	1	2	3	4	5
Battery module circuitry	In series				
Operation system/software	for single-device or master-device in cluster operation				
Coupling of the battery converter	in the DC string of the PV system				
Max. number of battery converters in parallel operation (cluster coupling)	2				
Mains connection	Suitable for mains parallel operation with 1 or 3-phase PV inverter				
Max. charge efficiency (PV2BAT)	97,0 %				
Max. discharge efficiency (BAT2INV)	96,7 %				
Efficiency with direct internal consumption (without battery operation) (PV2INV)	99,8 %				
Max. overall efficiency (round trip - charge/discharge)	92 %				
Max. permissible PV input voltage	650 V	900 V			
Min. PV input voltage Umpp (under STC)	150 V	200 V	250 V	300 V	350 V
Max. permissible PV input current I _{dc}	20 A				
Max. charging and discharging current	16 A				
Number of PV inputs, DC in	1				
Connection technology, DC in/ DC out	WMC4 (Weidmüller) included in the scope of delivery				
Max. charge and discharge output	0.8 kW	1.6 kW	2.4 kW	3.2 kW	4.0 kW
Max. charge and discharge output (continuous operation) ¹⁾	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
Supply voltage/frequency, AC in	220-240VAC, 50-60Hz				
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. 5W				
Internal consumption in operating mode	max. 15W				
Step response (time to supply a load demand)	< 1s				
Dead time (time to stop discharging)	0.1s				
Weight	12.9 kg				
Dimensions (W x H x D)	38.4cm x 23.6cm x 26cm				
Installation	Wall installation				
Shut-off device	Two redundant automatically disconnecting HV relays, DC disconnect				
Communication	LED status display, Bluetooth, optional EnergyManager Portal				
FullCoverage Insurance ²⁾	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, MyReserve Pack 24.3
Current sensor	AC Sensor 50, AC Sensor 63
Energy management systems	EnergyManager
DC current source	Crystalline/amorphous Si - photovoltaic modules

ENVIRONMENTAL AND AMBIENT CONDITIONS	
Environmental temperature range	-10°C to 45°C
Relative air humidity	≤ 85% non-condensing
Protection rating	IP 31
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	Safety Guidelines for Li-ion household battery system, Version 1.0 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)

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 (-) PV string negative terminal

Label	
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 50/63

1) depending on temperature and PV voltage
 2) SOLARWATT FullCoverage Insurance included for the first 5 years, optional extension available