Technical datasheet

MyReserve Command 25

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 parallely couple multiple systems
- Peak power of up to 4.5 kW
- Online-updates can easily be done via integrated network interface
- 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"
- Outdoor installation (IP54)

Advantages

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

premium quality MADE IN GERMANY since 1993

SOLARWATT Service

FullCoverage insurance
included if part of a complete MyReserve-System*

Professional consultation
Experts via hotline or on site

Warranty
10 years product warranty

Guarantee of origin
Quality from Germany

Simple returns policy
as per electrical and electronic equipment legislation

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"

Subject to change | Errors excepted
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Certified acc. to DIN EN ISO 9001, 14001, 50001 | BS OHSAS 18001:2007

Technical data

MyReserve Command 25

SOLARWATT®
power to the people

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 (optional anti theft)
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	included in supply package
Data communication connection technology	1x CAN (RJ45) 1x Ethernet (RJ45)
Internal consumption in sleep mode	max. 2.5 W
Internal consumption in operating mode	max. 7 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	10 years

Supported devices

PV inverter	all standard string inverters compatible with MyReserve Command technical design parameters
Battery	MyReserve Pack (24.3 / 24.3 (IP54))
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	up to 100 %
IP rating	IP54
Protection class	I
Overvoltage category	II
Installation location	up to 2,000 m above sea level, outdoor installation (acc. to Installation Instructions)

Certifications and standards

Tested by accredited laboratories according to:

Safety Guidelines for Li-ion household battery system, Version 1.0
IEC / DIN EN 62109-1:2011
IEC / DIN EN 61010-1:2011
IEC / DIN EN 62619:2014
IEC / E DIN EN 62485-5
IEC / DIN EN 61000-6-1:2007
IEC / DIN EN 61000-6-3:2011

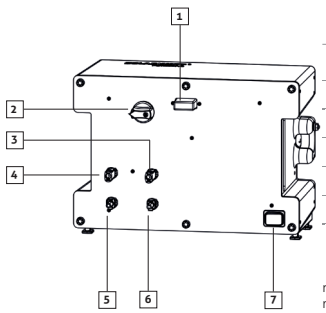
In compliance with:

EU Directives (CE): 2014/35/EU (Low-voltage), 2014/30/ EU (EMV), 2014/53/EU (RED), 2016/53/EU (RfG), 2011/65/EU (RoHS), VDE-AR-N 4105:2018-11 + VDE AR 2510-2 (in connection with VDE-AR-N 4105-compliant PV inverters), FNN-note „Connection and operation of storages in low voltage network", EN 50549-1 (in connection with EN 50549-1-compliant PV inverters), CEI 0-21 (in connection with CEI 0-21-compliant PV inverters), further RfG implementations on demand, KIT short checklist for Li-ion household battery systems (150 points) „Best Practice Guide for Energy Storage Equipment" (Australia)

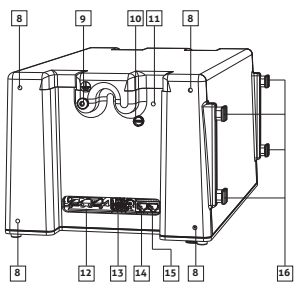
Electrical data

Number of battery modules to be connected	1	2	3	4	5
Max. permissible PV input voltage	1.000 V				
Max. permissible PV input power	15 kW				
Min. PV input voltage Umpp (under STC)	135 V	200 V		290 V	
Max. permissible PV input current Idc	25 A				
Max. charging and discharging current	18 A				
Max. charge and discharge power[2)]	0.5-0.9 kW	1.0-1.8 kW	1.5-2.7 kW	2.0-3.6 kW	2.5-4.5 kW

Configuration



	Label	
1	STATUS	Status LED/ Bluetooth antenna
2	DCON/DCOFF	DC disconnector
3	INV (+)	positive inverter terminal
4	PV (+)	positive PV-string terminal
5	PV (-)	negative PV-string terminal
6	INV (-)	negative inverter terminal
7	AC POWER	AC power supply switch



	Label	
8		Fastening holes for protective cover
9		Ground connection
10		optional fastening hole wiring harness MyReserve Command 20.2
11		fastening hole wiring harness MyReserve Command 25 to battery
12	BAT	Battery connection
13	AC L N ⏚	AC power supply (230 V)
14	LAN	Data communication (RJ45)
15	CAN	Data communication (RJ45)
16		Mounting bracket

required accessory: Accessory Kit MyReserve Command, Accessory Kit MyReserve Pack, AC-Sensor

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