

POWER STORAGE DC US 8.0 | 8.0 PRO

DC-COUPLED HYBRID INVERTER FOR RESIDENTIAL AND COMMERCIAL PV SYSTEMS



high efficiency



back-up
power supply



up to 3 roof
orientations



modular spae
saving design



quick and easy
installation



everything needed
from one source

HIGH EFFICIENCY

- Intelligent energy storage management
- 3 independent MPP-trackers, switchable to parallel mode
- Transformerless topology
- Fanless cooling
- Dynamic power adjustment (1- 100%)
- Forecast based battery charging
- Back-up power supply

UNIQUE FLEXIBILITY

- Possible input voltage range between 120 V and 520 V
- Up to 2 high voltage batteries per inverter
- Modular and space saving design

EASY INSTALLATION

- Plug and play installation
- Quick commissioning with wizard via RCT Power App
- Integrated auto-transformer
- Separate Power Switch installation possible

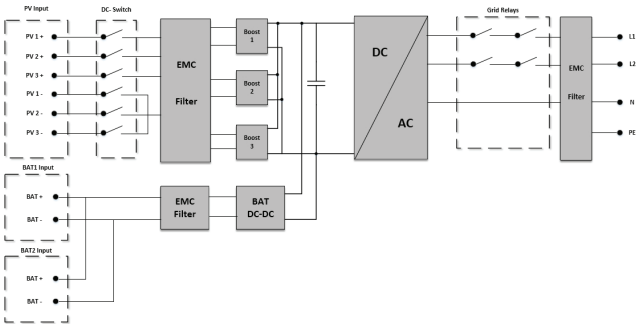
USER FRIENDLY COMMUNICATION

- Multicolor LED light path display
- Comfortable remote monitoring via App and Cloud
- Multifunction relay for connecting consumers

PREMIUM DESIGN

- German technology
- Flexible and sophisticated design
- Durable aluminium housing

BLOCK DIAGRAM



POWER STORAGE DC

US 8.0

US 8.0 PRO

DC INPUT

Max. recommended DC power	12000 W
MPPT	3
Input per MPPT	1
Maximum DC current per MPPT	14 A
Rated DC voltage	360
DC start up voltage	125 V
MPP voltage range	120 V ~ 500 V
Maximum Voltage DC	520 V
Connector type	Quick Contact MC1-Evo 2

BATTERY INPUT

DC Voltage Range	120 V ~ 520 V
Maximum charge / Discharge current	25 A
Maximum charge / Discharge power	11550 W / 8000 W
Connector-type	Wiring box

AC OUTPUT (GRID-MODE)

Real AC output power	8000 W
Nominal AC current	34 A
Frequency range	58 Hz to 62 Hz
Grounding fault protection current	30 mA, 60 mA, 150 mA
Rated AC voltage	240 Vac
AC voltage range	211 V ~ 264 V
Total harmonic distortion	< 3%
Reactive power factor	Adjustable range 0.80 cap. . . 0.80 ind
Anti-islanding operation	YES
Earth fault protection	RCD
Type of AC connection	Wiring box

AC OUTPUT (BACK-UP MODE)

Maximum output power	8000 W*
Rated AC voltage	120 / 240ZVac (Split Phase)
Nominal AC current	34 A
Nominal AC output frequency	60 Hz
Total harmonic distortion	< 5 %
Type of AC connection	Wiring box

PERFORMANCE

Stand-by consumption	< 4 W
Maximum efficiency (PV-Grid)	97.94 %
Maximum efficiency (Battery-Grid)	97.48 %
CEC efficiency	97.5 %
Topology	Transformerless

OTHERS

Dark Start Function	Yes	NEMA Type 3R
PV Disconnect switch	Integrated in wiring box	
Data interface	BAT/CAN, WLAN, LAN, RS485	
Display	LED Light	
Cooling	Convection	
Max. operating altitude	6500 ft	
Max. relative humidity	5 - 95 % (non condensing)	
Typical noise	< 35 dB	
Operating temperature	-13 °F ~ 140 °F	
Enclosure type	NEMA Type 1	
Size Power Inverter (HxWxD)	2.79' x 1.90' x 0.67'	
Size Power Switch (HxWxD)	2.79' x 1.05' x 0.67'	
Weight Power Inverter	75 lb	
Weight Power Switch	45 lb	

SAFETY / STANDARDS

Safety	UL1741 , CSA-C22.2 No. 107.1-16	AFCI	UL1699B (TYPE 1)
Grounding fault protection	UL1741 CRD	Grid support regulation	UL1741 SB , IEEE1547, California Rule 21
Software approval	UL1998	Storage system	UL9540
Anti-islanding protection	IEEE1547, IEEE1547.1	EMC	FCC part 15 Class B

* Need to use 3~6 pcs power battery stacks