

POWER STORAGE DC

us 15.0

HYBRID INVERTER
FOR RESIDENTIAL AND
COMMERCIAL PV SYSTEMS



HIGH PERFORMANCE

- Dynamic power adjustment (1 - 100%)
- Forecast based battery charging
- 200% DC/ AC ratio for higher yields
- 3 MPPTs, Max.30A input per MPPT
- 150% peak backup power for 10s
- Up to 15 kw backup power with or without PV

UNIQUE FLEXIBILITY

- Possible input voltage range between 120 V and 520 V
- Up to 2 high voltage batteries per inverter
- 120/240V and 208V voltage supported
- Microgrid and generator function supported
- DC or AC Coupling application scenarios supported
- Optional built-in SunSpec Certified RSD transmitter
- 200A AC passthrough current for whole home backup

USER FRIENDLY

- Multicolor LED light path display
- Comfortable remote monitoring via App and Cloud
- Flexible configuration, Plug and play installation
- NEMA 3R design suitable for Indoor & Outdoor Installation

PREMIUM DESIGN

- German technology designed for Canada
- Flexible and sophisticated design
- Durable housing

EXPANDABLE SOLUTION

- Modular 15 kW hybrid inverter
- Add up to (6) 15 kW hybrid inverters in parallel (90kW max)

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POWERSTORAGE DC CAN-15.0

BATTERY INPUT DATA

Battery Type	Lithium-ion
Battery Voltage Range(V)	120-520
Max. Charging Current(A)	50
Max. Discharging Current(A)	50
Number of battery input	2

PV STRINGINPUTDATA

Max DC Input Power(W)	30000
Max DC Input Voltage(V)	600
Start-up Voltage(V)	150
MPPT Voltage Range(V)	120-550
Rated DC Input Voltage(V)	380
Max Input Short-Circuit Current(A)	45/45/45
Max Operating PV Input Current(A)	30/30/30
No. of MPP Trackers	3
No. of String Per MPP Tracker	2

AC INPUT/OUTPUT DATA

Rated AC Input/Output Active Power(W)	15000
Max AC Input/Output Apparent Power (VA)	15000
Peak Power (off-grid) (W)	22500, 10s
Rated AC Input/Output Current(A)	62,5
Max AC Input/Output Current(A)	62,5
Max Continuous AC Passthrough (grid to load) (A)	200
Rated Input/Output Voltage/Range(V)	120/240, 208 0.85Un- 1.1 Un
Grid Connection Form	2L+N+PE
Rated Input/Output Grid Frequency/Range	60Hz/55Hz-65Hz
Power Factor Adjustment Range	0.8 leading-0.8 lagging
Total Current Harmonic Distortion THDi	<3% (of nominal power)
DC Injection Current	<0.5%In
Backup Transfer Time	<10ms
Stackable	Up to 6 in parallel

EFFICIENCY

Max Efficiency	97,60%
CEC Efficiency	96,50%
MPPT Efficiency	>99%

EQUIPMENT PROTECTION

PV Reverse Polarity Protection	Yes
AC Output Overcurrent Protection	Yes
AC Output Overvoltage Protection	Yes
AC Output Short Circuit Protection	Yes
Thermal Protection	Yes
DC Terminal Insulation Impedance Monitoring	Yes
DC Component Monitoring	Yes
Ground Fault Detection - NEC 690.5	Yes
Grid Monitoring	Yes
Anti-islanding Protection	Yes
Earth Fault Detection	Yes
PV DC Disconnect Switch - NEC 240.15	Yes
Residual Current (RCD) Detection	Yes
PV Rapid Shutdown Control - NEC 690.12	Yes
PV Arc Fault Detection - NEC 690.11	Yes
Surge Protection Level	Type II(DC), Type II(AC)

INTERFACE

Communication Interface	WIFI, RS485, CAN, Ethernet

GENERAL DATA

Operating Temperature	-13 'F ~ 140 'F
Permissible Ambient Humidity	0-100%
Permissible Altitude	2000m
Noise	≤ 45 dB(A) (1m)
Ingress Protection (IP) Rating	IP55 / NEMA 3R
Inverter Topology	Non-Isolated
Over Voltage Category	OVC II(DC), OVC III(AC)
Dimensions (HxWxD)	2.79' x 1.77' x 0.99'
Weight (lb)	132 lb

CERTIFICATIONS

Certifications and Listings	UL1741-2010/2018, UL1998, IEEE1547a 2018, FCC 15 Class B, UL1741 SB,UL1741 CRD, CA Rule 21, HECO Rule 14H

WARRANTY

Warranty	12 Years

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