

Powercore



6S



Supporting Both
New and Old Batteries

With UPS function
switch time $\leq 10\text{ms}$

15mins stackable
Installation

Integrated AC EV
Charger Module

20A Max. DC
Input Current

Up to 200%
DC/AC ratio

System Diagram



Rated Output [W]	6000
Number of Battery Modules	2
Nominal Energy [kWh]	10.0
Ingress Protection	IP65
Operating Temperature Range	-30°C ~ +50°C
Relative Humidity Range	5-95%
Max. Operating Altitude [m]	2000
Dimensions [H*W*D] [mm]	1190*695*170

Inverter Module

Module	Powercore-6S
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DC Input

Max. PV Array Power [Wp]@STC	12000
Max. DC Voltage [V]	600
MPPT Voltage Range [V]	90~550
Rated DC Voltage [V]	360
Start Voltage [V]	100
Max. DC Input Current [A]	20/20
Max. DC Short Circuit Current [A]	24/24
No. of MPPT	2

AC Output/Input [On-grid]

Rated AC Power [W]	6000
Max. Apparent Power [VA]	6000
Rated Output Current [A]@230Vac	26.1
Max. Output Current [A]	26.1
Max. Input Current [A]@230Vac	54.5
Rated AC Voltage/Range [V]	L+N+PE, 220, 230, 240/180~280
Rated Output Frequency/Range [Hz]	50, 60/45~55, 55~65
Power Factor [cos φ]	0.8 leading~0.8 lagging
Total Harmonic Distortion [THDi]	<3%

Battery Parameters

Battery Type	LiFePO4
Battery Voltage Range[V]	380~500
Max. Charging/Discharging Current [A]	18.5/18.5
Scalability	BU5 (up to 8 battery modules)

AC Output [Back-up]

Rated Output Power [W]	6000
Peak Output Apparent Power [VA]	7200,60s
Rated AC Voltage/Range [V]	L+N+PE, 220,230,240/180~280
Rated Output Frequency/Range [Hz]	50,60/45~55,55~65
Output THDv (@ Linear Load)	<3%

Efficiency

Max. Efficiency	97.6%
Euro Efficiency	97.2%

Protection

Battery Input Reverse Polarity Protection	Integrated
Over load Protection	Integrated
AC Short Circuit Current Protection	Integrated
AC Overcurrent Protection	Integrated
AC Overvoltage Protection	Integrated
DC Surge Protection	Type
AC Surge Protection	Type
Anti-islanding Protection	Integrated
AFCI Protection	Integrated

Interface

PV Connection	MC4/D4
AC Connection	Plug-in connector
Battery Connection	Quick connector
Display	LED+APP
Communication	Wi-Fi/Ethernet/4G(Optional)

General Parameters

Topology	Non-isolated
Operating Temperature Range	-30 ~+50
Cooling Method	Natural Convection
Relative Humidity Range	0-100% Non-condensing
Max. Operating Altitude [m]	3000
Noise [dBA]	<35
Ingress Protection	IP65
Dimensions [H*W*D] [mm]	400*695*170
Weight [kg]	27.5

Standard

EN 62109-1/2, EN 61000-6-2/4, EN 50438, EN 50549, C10/11, IEC 62116, IEC 61727, RD 1699, RD 413, UNE 206006, UNE 206007, NTS, CEI 0-16, CEI 0-21, AS 4777.2, NBR 16149, NBR 16150 VDE-AR-N 4105, VDE 0126-1-1