

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
--------	--------------

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