

Powercore 10T



Integrated with 11kW
EV charger module

Battery module integrated with a DC/DC optimiser,
expandable whenever you need

Max. 20A input current
to better match
high power panel

Plug-in connection of the
modules without any cabling,
easy installation

Supported 100% three
phase voltage imbalance

170mm thick, blend in
with its surrounding

Self-heating
and fire-protection
system inside the battery

System Diagram



Rated Output [W]	5000-12000
EV Charging Power [W]	11000
Number of Battery Modules	4
Nominal Energy [kWh]	20.0
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]	1770*695*170 520*695*170

Inverter Module

Module	Powercore-10T
--------	---------------

DC Input

Max. PV Array Power [Wp]@STC	15000
Max. DC Voltage [V]	1000
MPPT Voltage Range [V]	180 ~ 900
Rated DC Voltage [V]	600
Start Voltage [V]	180
Max. DC Input Current [A]	20
Max. DC Short Circuit Current [A]	24
No. of MPPT	2

AC Output/Input [On-grid]

Rated AC Power [W]	10000
Max. Apparent Power [VA]	11000
Rated Output Current [A]@230Vac	14.5
Max. Output Current [A]	15.9
Max. Input Current [A]@230Vac	29.0
Rated AC Voltage/Range [V]	3L+N+PE, 220/380, 230/400, 240/415; 180~280/312~485
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]	30/30
Scalability	BU5 (up to 8 battery modules)

AC Output [Back-up]

Rated Output Power [W]	10000
Peak Output Apparent Power [VA]	15000,60s
Rated AC Voltage/Range [V]	3L+N+PE, 220/380, 230/400, 240/415; 180~280/312~485
Rated Output Frequency/Range [Hz]	50,60/45~55,55~65
Output THDv (@ Linear Load)	<3%

Efficiency

Max. Efficiency	98.0%
Euro Efficiency	97.6%

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 II
AC Surge Protection	Type II
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°C ~ +50°C
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]	450*695*170
Weight [kg]	34

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