

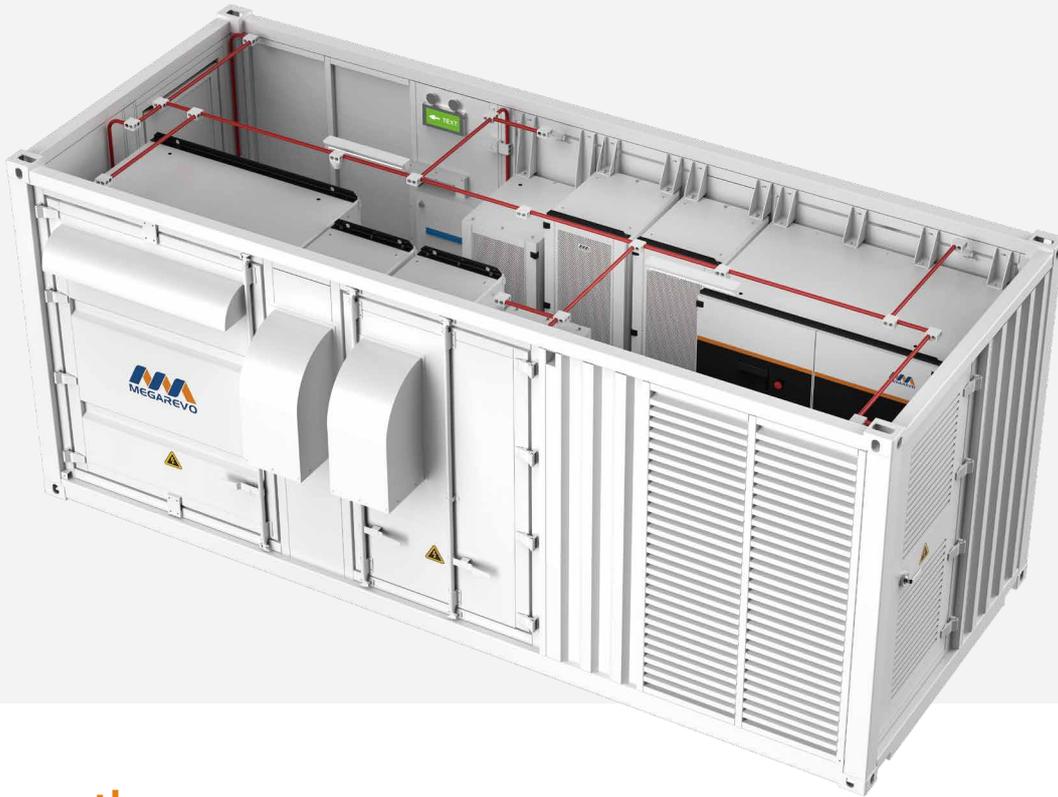


MAKE ENERGY CLEANER AND MORE EFFICIENT

ESSP Series Inverter Container



Example: ESS P 1000 B



Key strengths

- / Anti-corrosion grade: C3 , Protection grade: IP54.
- / Split design, compatible with lithium and lead-acid batteries, etc., matching mainstream BMS communication protocols, and free combination.
- / External optional air-cooled/liquid-cooled battery system, supporting up to 12 strings of 0.5C/1C battery systems connected at the same time (1-12 strings optional).
- / Flexible configuration of UPS capacity and AC auxiliary power supply according to external power supply requirements of different battery systems.
- / Self-developed EMS, adopts a three-tier IoT architecture and is integrated with router cloud technology, realize the intelligent operation of energy storage system and improve the economic efficiency of the system.
- / MPS/PCS equipment supports multi-machine parallel connection, Multiple working modes to flexibly cope with various application scenarios.

Model interpretation

Model code	Field description	Naming convention
ESS	Energy storage system	ESS stands for energy storage system.
P	Structural form	A : Outdoor cabinet system B : Battery outdoor cabinet C : Container system E : Battery container P : Inverter container F : Inverter outdoor cabinet
1000	System power	The four-digit number represents the system AC output power (in KW) 0500 represents 500KW, 1000 represents 1MW
B	Built-in device type	A stands for MEGA series B stands for MPS series C stands for PMAE series D stands for PMDE series

Product family

Converter (AC)

Model	ESSP0500A	ESSP0500B	ESSP1000A	ESSP1000B
Converter model	MEGA0500TS	MPS0500	MEGA0500TS*2	MPS0500*2
Rated power (kW)	500		1,000	
Active power (kW)	500		1,000	
Rated voltage (V)	400			
Rated current (A)	722		1,445	
Voltage range (V)	320~460			
Rated frequency (Hz)	50/60			
Frequency range (Hz)	45-55 / 55-65			
THDi (on-grid)	<3%			
THDu (off-grid)	≤1% linear; ≤5% nonlinear			
Power factor	1leading~1lagging(settable)			
Overload capability	110% long-term			
Grid type	3-phase 4-wire + ground (3W+N+PE)			
Isolation transformer	315/400			
On / off-grid switching	Support			

MPPT

Max. PV input voltage (V)	/	1,000	/	1,000
Max. PV power (kW)	/	600/660/720	/	1,200/1,320/1,440
MPPT operating voltage range (V)	/	250~850	/	250~850
Buck-boost mode	/	Support	/	Support

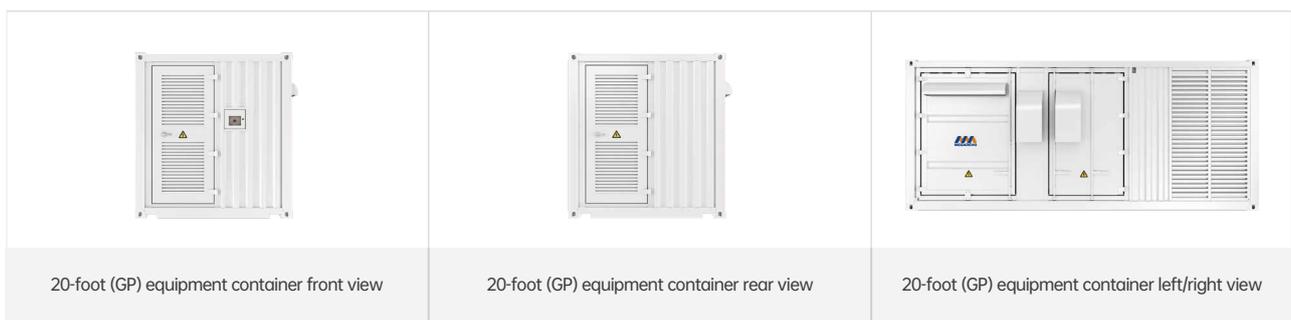
General

Structure type	20 foot container			
Dimensions W*D*H (mm)	6,058*2,438*2,591			
Net weight(Includes converter)(kg)	≈9,200	≈10,000	≈11,300	≈13,000
Operating temperature (°C)	0 ~ +45			
Relative humidity	0 ~95% (non-condensing)			
Ingress protection	IP54			
Anti-corrosion grade	C3			
Noise emission (dB)	<75			
Max. operating altitude (m)	5,000(>3,000 derating)			
Cooling	Air cooling			
Display	7" device display +10" EMS display +10" BMS display (configurable)			
EMS communication	RS485,TCP/IP			

Applications

- » C&I peak shaving and valley filling
- » Emergency power supply
- » Grid side peak regulation and frequency modulation

Product introduction

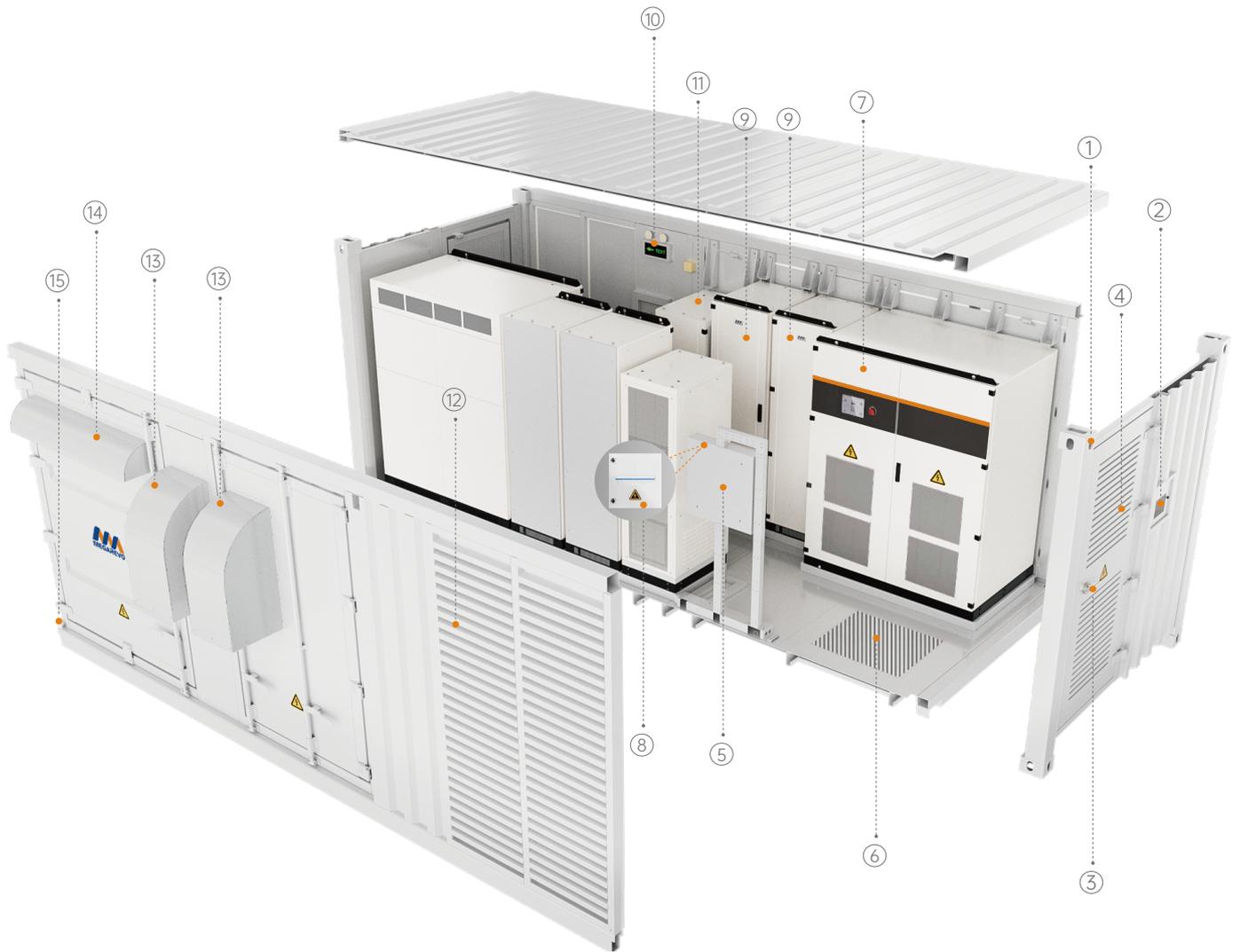


20-foot (GP) equipment container front view

20-foot (GP) equipment container rear view

20-foot (GP) equipment container left/right view

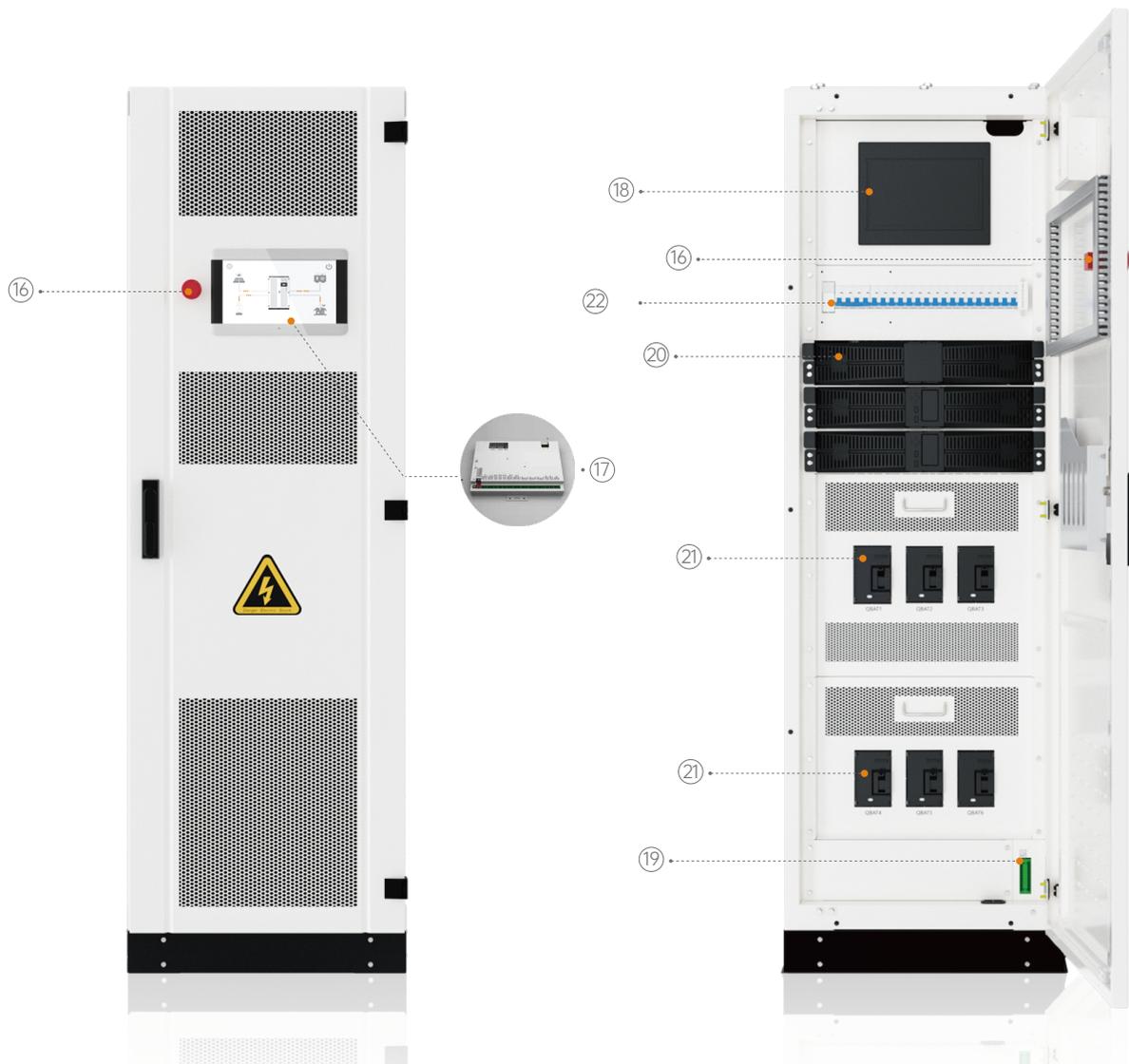
Product introduction



20-foot (GP) equipment container layout view

- | | | |
|--------------------------------|---|-------------------------|
| ① Lifting hole | ② EPO emergency stop button | ③ Escape door |
| ④ Air intake shutter | ⑤ AC Distribution Box for External Battery System | ⑥ Human Well |
| ⑦ Energy storage converter | ⑧ External battery system power supply (AC), BMS power control switch | ⑨ PMDE (DC/DC) cabinets |
| ⑩ Emergency Lights | ⑪ Integrated power distribution cabinet (6 in 1) | ⑫ Air intake shutter |
| ⑬ PMDE cabinet air outlet hood | ⑭ Energy storage converter air outlet hood | ⑮ External ground hole |

Product introduction



Front view of integrated power distribution cabinet (6-in-1, closed/open door)

- ①⑥ EPO emergency stop button
- ①⑦ EMS (Energy Management System)
- ①⑧ Three-level BMS display and control
- ①⑨ TF6 communication interface board
- ②⑩ UPS + battery pack*2
- ②① External battery system bus switch
- ②② Power distribution control switch in container

Optional modules

External battery system converter switch

* Flexible configuration according to the number of battery clusters

DC/DC module

* Flexible configuration based on PV module capacity

UPS capacity/power reserve capacity

* According to the battery system BMS starting power, flexible selection of configuration

Out-of-cabinet distribution control switches

* Flexible configuration according to the number of battery clusters



SHENZHEN MEGAREVO TECHNOLOGY CO., LTD.

☎ 0086-0755-21380136

🌐 www.megarevo.com

✉ sales@megarevo.com

📍 Building 2, Winlead, Shutianpu Community, Matian Street,
Guangming District, Shenzhen City, Guangdong Province,
P.R. China

Disclaimer:

This document may contain predictive information, including but not limited to product line/operations/technology information. Because there are many uncertain factors in practice, the actual result may be very different from the predicted information. Therefore, the information in this document is for reference only and does not constitute any offer or acceptance. megarevo may modify the above information without notice and without prior notice.