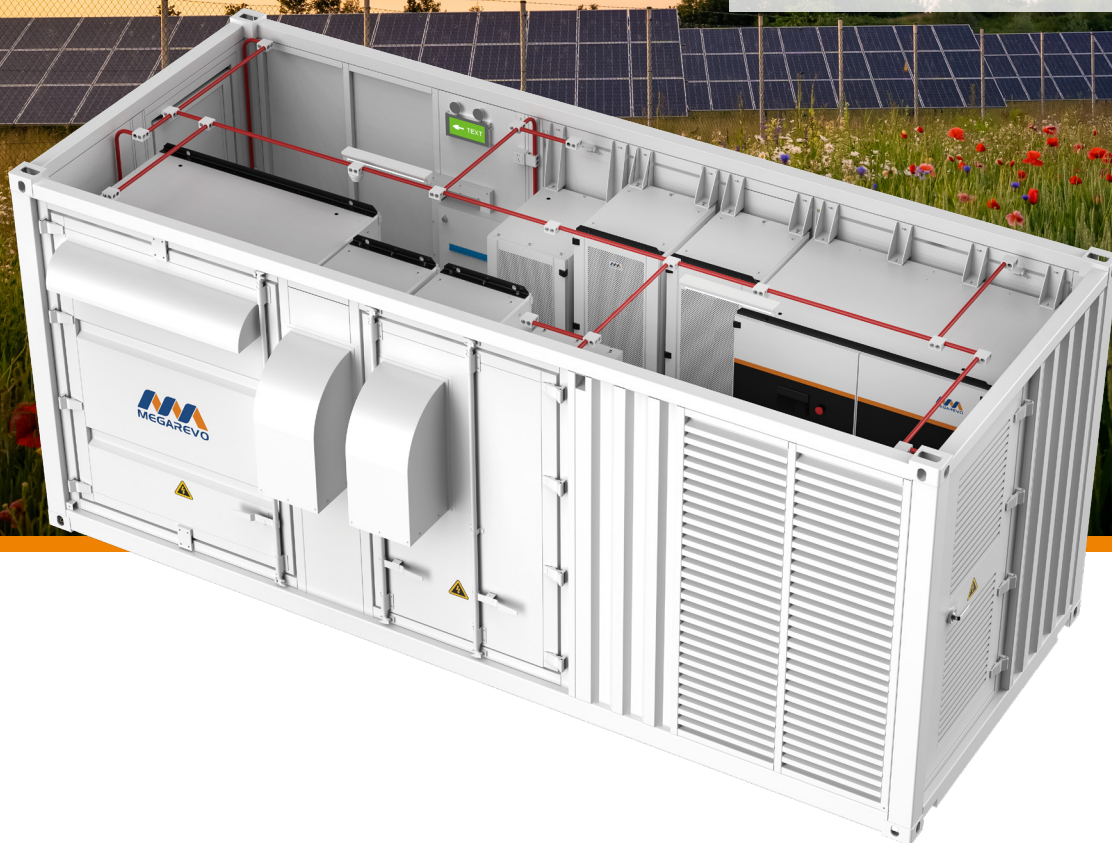


ESSP Series

Inverter container



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	ESSP0500A	ESSP0500B	ESSP1000A	ESSP1000B
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Converter (AC)

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