

Energy Storage System Series

# Container PCS booster



## Key strengths

- Support multiple battery input to improve battery cycle life.
- High frequency switching design, low current ripple and high power quality.
- System can be expanded to MW level by parallel.
- Built-in EMS function to improve energy efficiency management.
- Latest IGBT module, high efficiency conversion.
- Integrated multiple boost systems.

## Applications

- » PV charging station
- » Wind power storage
- » Combined thermal power FM
- » Grid-side storage

**DC(battery)**

Model	ESSC1000A-MV35	ESSC1260A-MV35	ESSC2000A-MV35	ESSC2500A-MV35
Battery voltage range (V)	500-900			

**AC(on-grid)**

Max. apparent power (kVA)	1,100	1,386	2,200	2,750
Rate output power (kW)	1,000	1,260	2,000	2,500
Rated voltage (kV)	35 (10kV optional)			
Voltage range (kV)	38.5±2×2.5% (6、10、22) optional			
Rated current (A)	16.5	20.8	33	41.2
Max. output current (A)	18.1	22.9	36.3	45.4
Rated frequency (Hz)	50/60			
Frequency range (Hz)	45-55/55-65			
THDi	<3%			
Power factor	1lagging-1leading (Settable)			
AC connection	3W+PE			

**General data**

Max. efficiency	98%			
Ingress protection	IP54			
Noise emission(dB)	<75			
Operating temperature (°C)	-30 ~ 55			
Cooling	Temperature controlled forced air cooling			
Relative humidity	0 ~95% non-condensing			
Operating altitude	5,000m(>3,000 Derating)			
Dimension W*D*H (mm)	4,300*2,438*2,591	4,300*2,438*2,591	6,058*2,438*2,591	6,058*2,438*2,591
Net Weight (kg)	4,500	4,500	8,000	8,000
Transformer	No			
Self-consumption (W)	< 20	< 20	< 40	< 40
Booster transformer	Manual (default)/ Automatic (optional)			

**Display and communication**

Display	LCD touch-screen
BMS communication	RS485/CAN
EMS communication	RS485, TCP/IP