EPCS series (125K~250K) PCS

Main Features

- Three-level topology, high conversion efficiency, good power quality
- Device derating design, good stability, long equipment life
- Modular design, smooth expansion, strong scalability
- Support multi-machine parallel, can be extended to MW level
- Cluster-level battery management, cluster-level battery optimization
- Longer system life, highly competitive levelized cost of energy (LCOE)
- Support ms-level scheduling response, active network construction
- Support high and low voltage ride-through, proactively adapt to weak power grids



Technical Parameters

This series of PCS is compatible with both three-phase three-wire and three-phase four-wire systems, covering 10 power and AC voltage levels. It is divided into three major versions (GB, EN, and UL) based on application regions, making it suitable for various global application scenarios.

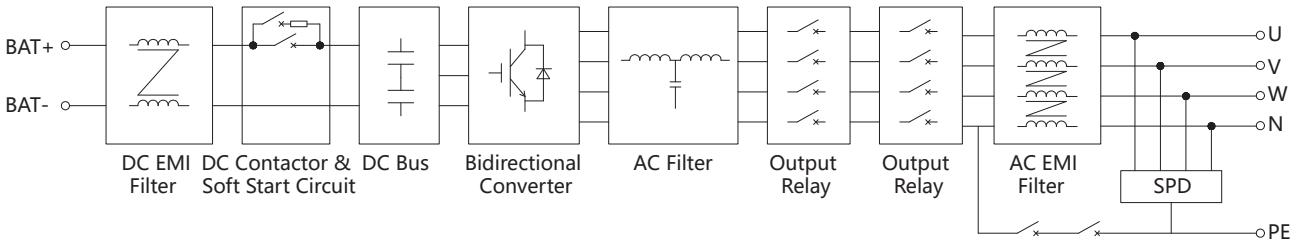
EPCS125/210/215/250-AM-HX/Y (EN Standard)

Spec.	EPCS125-AM-HX /EPCS125-AM-HY	EPCS210-AM-HX /EPCS210-AM-HY	EPCS215-AM-HX /EPCS215-AM-HY	EPCS250-AM-HX /EPCS250-AM-HY
DC side				
Operating voltage range	600 ~ 1500V	1150 ~ 1500V	1000 ~ 1500V	1150 ~ 1500V
Full load voltage range (3P+PE)	600 ~ 1500V	1150 ~ 1500V	1000 ~ 1500V	1150 ~ 1500V
Full load voltage range (3P+PE+N)	700 ~ 1500V	/	/	/
Max. current	245A			
AC side				
Rated voltage	400V	800V	690V	800V
Rated voltage range	-15% ~ +10%			
Connection type	3P+PE(+N)	3P+PE	3P+PE	3P+PE
Rated power	125kW	210kW	215kW	250kW
Max. power	137.5kVA	231kVA	237kVA	275kVA
Rated current	180A	152A	180A	180A
Max. current	198A	167.2A	198A	198A
Rated frequency	50/60Hz			
Power factor	0.99 (leading) ~ 0.99 (lagging)			
THDi	<3% (@rated power)			
THDu (off-grid)	<3% (at no-load and balanced resistive load)			
Overload capability	1.1x (long-term); 1.2x (10min)			
Max. Efficiency	≥98%	≥98%	≥99%	≥99%

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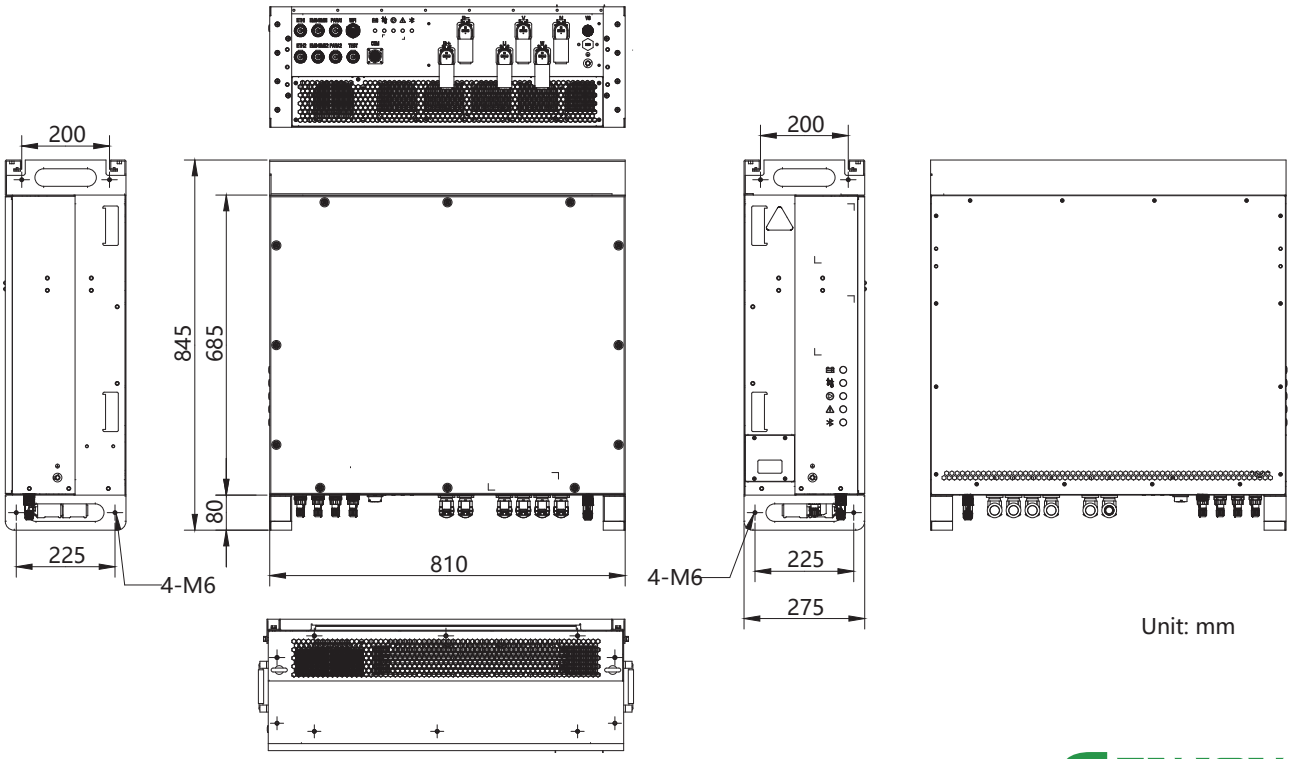
General Parameters	
Protection functions	DC over/under voltage protection, DC reverse connection protection, DC surge protection, DC insulation fault protection, AC over/under voltage protection, AC overcurrent protection, AC short-circuit protection, AC reverse sequence protection, AC surge protection, anti-islanding protection, harmonic suppression, over-temperature protection, fan fault protection, communication fault protection, auxiliary power fault protection
Dimensions	Air-cooled (-HX): Top sliding rail: 810×275×845mm; Wall-mounted: 810×300×803mm; Cabinet-mounted / Side-standing: 870×275×727mm; Liquid-cooled (-HY): 740×200×845mm (to be confirmed)
Weight	Air-cooled (-HX): ≤108kg; Liquid-cooled (-HY): 83kg (to be confirmed)
Altitude	4000m (derate above 3000m)
Operating temperature	-40 ~ 60℃ (derate above 50℃)
Storage temperature	-40 ~ 70℃
Humidity	0% ~ 100%RH
Cooling method	Air cooling (-HX) / Liquid cooling (-HY)
Protection Rating	IP66
Communication method	Ethernet /CAN/RS485
Communication protocol	IEC61850,CAN2.0B,MdsbusTCP/RTU

Circuit Topology



Product Dimensions

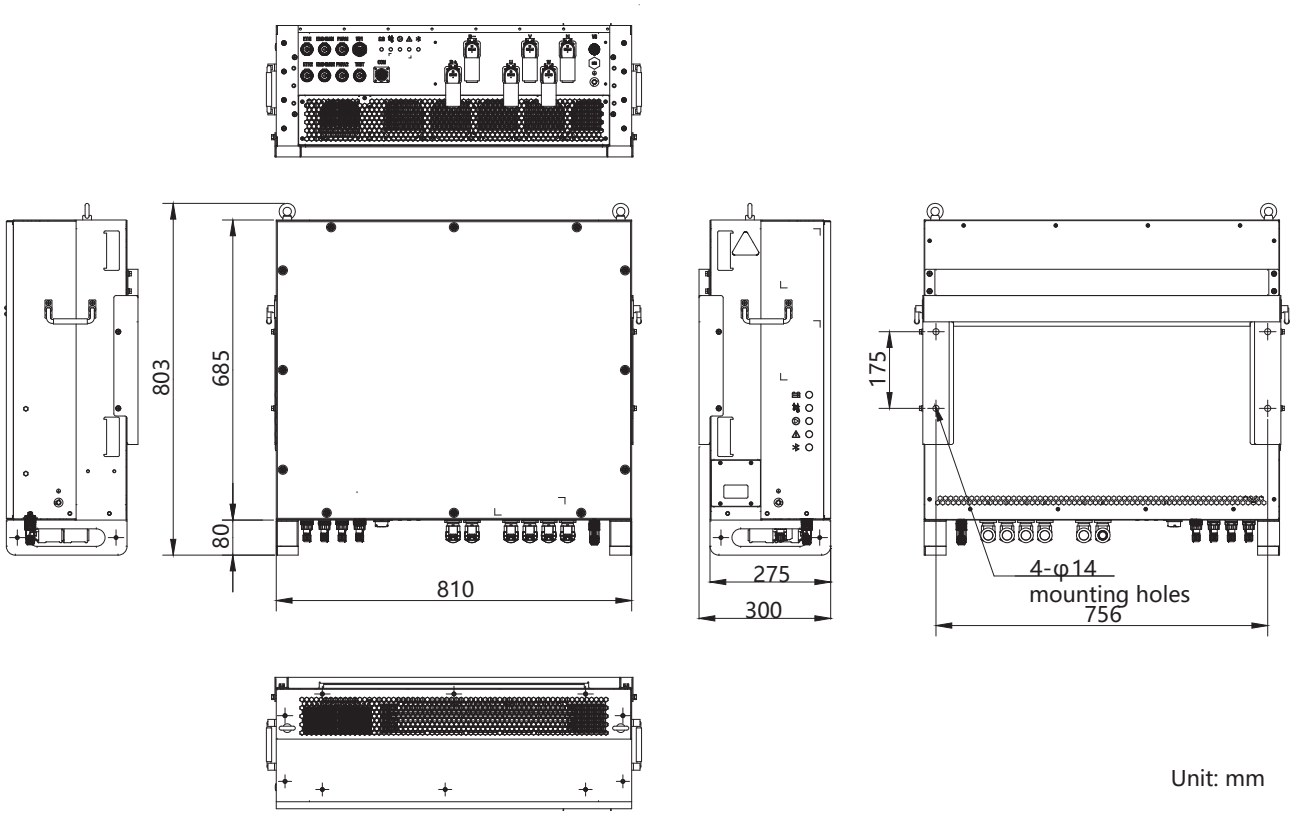
Air-cooled: Top Sliding Rail Type



Unit: mm

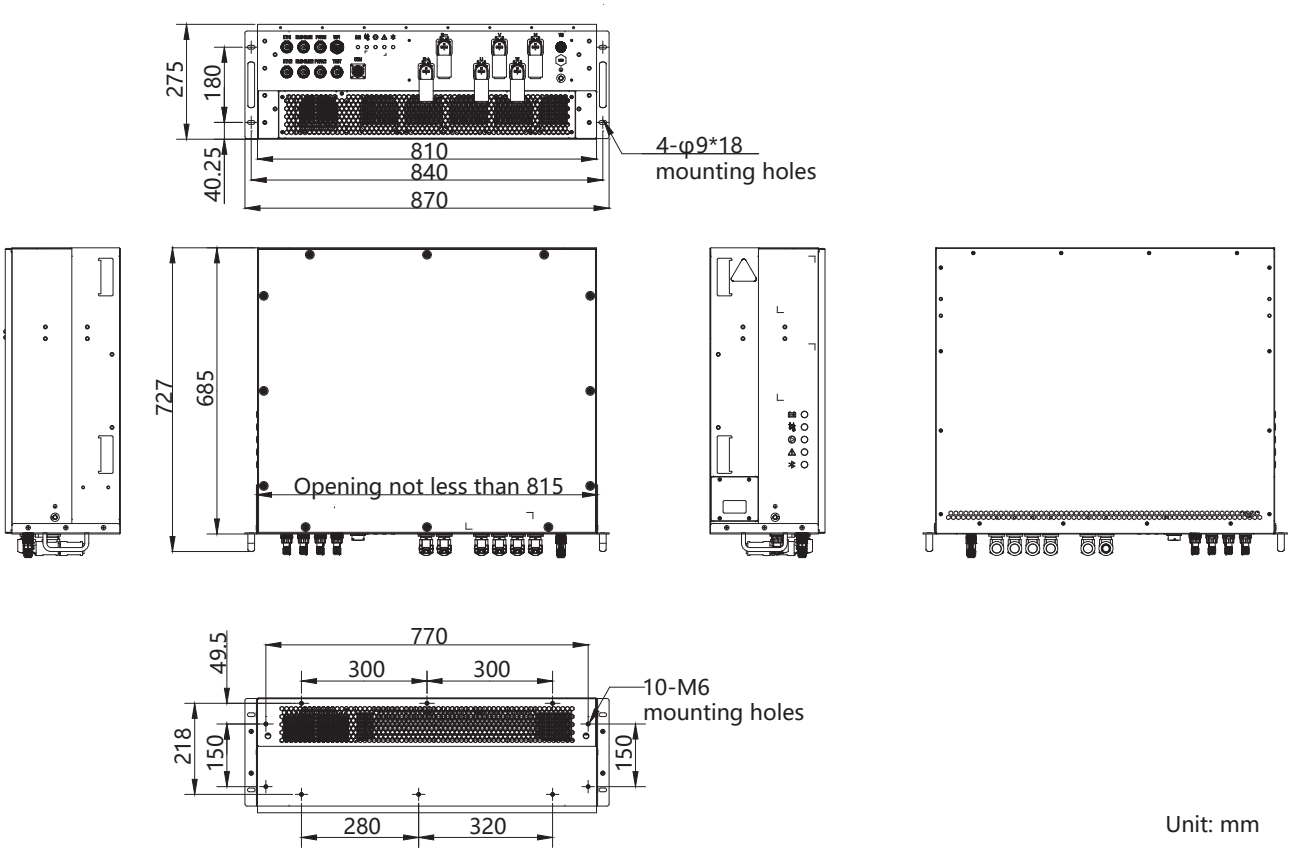
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Air-cooled: Wall-mounted Type



Unit: mm

Air-cooled: Cabinet-mounted / Side-standing Type



Unit: mm

Liquid-cooled

Under development, stay tuned.