EPCS Series 100-125K Power Conversion System

Efficient conversion

- Three-level topology with high conversion efficiency
- High dynamic response, ms-level full-load charge/discharge switching

Safe and reliable

- String design, wide DC voltage range, supports multiple types of battery use
- Seamless off-grid and on-grid switching, with STS to provide uninterruptible backup power supply

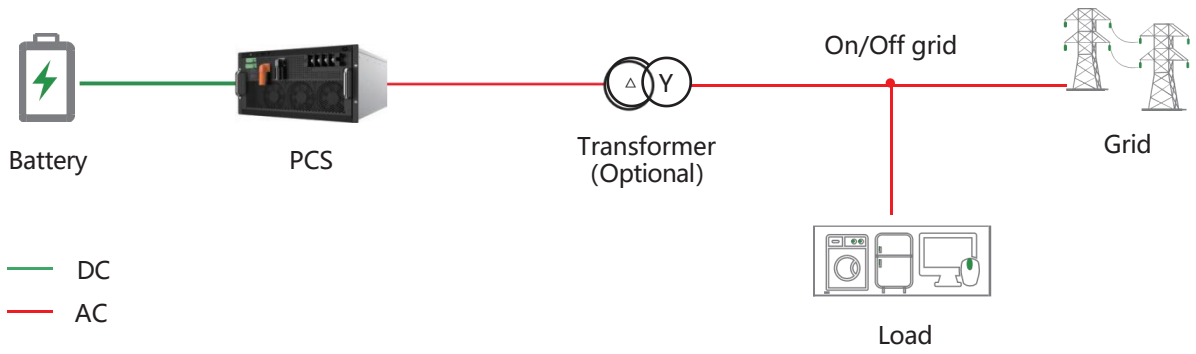
Intelligent collaboration

- VSG / PQ / VF multiple operation modes
- Off-grid parallelism, black start function

Grid friendly

- LVRT, HVRT, active power management and 100% unbalanced load
- Excellent grid adaptability (stable operation under THDu≤20% operating conditions)

Typical Application



Technical Parameters

Spec.	EPCS100-AM EPCS100-AM-F	EPCS105-AM EPCS105-AM-F	EPCS125-AM EPCS125-AM-F EPCS125-AM2S-M
DC terminal			
Voltage Range [Vd.c.]	615~950*		
Max. Discharge/Charge Current [Ad.c.]	163	171	203
Overvoltage Category (OVC)	II		
Rated Discharge/Charge Current [Ad.c.]	118	124	147
Battery type	Lithium battery		
AC terminal(on-grid)			
Rated Voltage [Va.c.]	400, 3P+PE(+N)		
Rated Frequency [Hz]	50/60		
Rated Charge / Discharge Power [kW]	100	105	125
Rated Charge / Discharge Apparent Power [kVA]	100	105	125
Max. Charge / Discharge Apparent Power [kVA]	110	115.5	138
Rated Charge / Discharge Current [Aa.c.]	144	152	180
Max. Charge/Discharge Apparent Current [Aa.c.]	159	167	200
Power Factor cosφ [λ]	1 lagging ~ 1 leading		
Overvoltage Category (OVC)	III		
Maximum efficiency	98.5%		
System			
Type of Inverter	Non-Isolated		
Protective Class	I		
Dimensions W*L*H [mm]	440*620*225 for EPCS100-AM 500*670*270 for EPCS100-AM-F	440*620*225 for EPCS105-AM 500*670*270 for EPCS105-AM-F	520*725*232 for EPCS125-AM 520*785*232 for EPCS125-AM-F 700*790*265 for EPCS125-AM2S-M
Enclosure Protection(IP)	IP20		
Pollution degree	External PD3, Internal PD2		
Operating Temperacture Range [℃]	-30 ~ 55		
Country of manufacture	China		
Certification			
Grid code	AS/NZS 4417.1		
Safety	EN 62477-1		
EMC	EN IEC61000-6-2; EN IEC61000-6-4; IEC 62920		

*When the system wiring is 3P+N+PE, the DC operating voltage is 680-950V.