

Commercial and Industrial Products

Z PCS
Power Conversion System



ZOE-ECS100-LA-A 100kW Built-in

General data	
Max. efficiency	≥99%
Isolation Transformer	无
Protection Level	IP65
Operating Temperature	-30~60°C (>40°C Derating)
Relative Humidity	0~100%
Cooling Method	Smart Cool Air
Maximum Operating Altitude	4000m (>3000m Derating)
Communication Protocol	Modbus-RTU/Modbus-TCP/IEC61850/CAN
Dimensions (W*D*H)	600*480*221mm
Weight	60kg
Standard	GB/T 34120-2017 GB/T 34133-2017 IEEE 1547 IEC 62477-1 IEC 61000-6-2 IEC 61000-6-4

DC Side Parameters

Maximum DC Voltage	1000Vdc
DC Operating Voltage Range	600~1000Vdc
Maximum DC Current	183A
Full Load DC Voltage Range	600~850Vdc

AC Side Parameters

Rated Output Power	100kW
Maximum Output Power	110kVA
Rated Grid Voltage	400Vac
Rated Grid Frequency	50Hz/60Hz
Maximum Output Current	158A
Power Factor	-0.99~+0.99
THDi	<3%
Charge/Discharge Conversion Time	<100ms
On/Off Grid Switching Time	≤20ms
Unbalanced Load Capacity	100%

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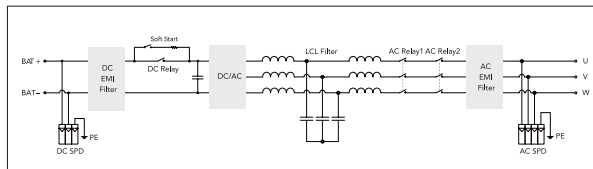


Features

- Charge/discharge each cluster independently
- Fast plug and play, easy expansion
- C5M anti-corrosion grade
- Parallel in AC side (maximum 40 sets)
- Grid-forming/black start capability
- Safe and reliable
- Modular design philosophy
- No need advanced technical service personnel
- Horizontal and vertical mounting thermal design
- Higher battery capacity utilization



Circuit diagram



ZOE-ECS200-HB-A 200kW

Input -DC	
Max. DC voltage	1500 Vdc
Startup voltage	1000 Vdc
Max. input current	224.5 A
Full-load voltage range	1000~1500 Vdc

Output -AC (on-grid)	
AC output power	220kVA@35 °C , 200kVA@45 °C
Rated output voltage	690Vac, 3W+PE
AC voltage range	607~759 Vac (Adjustable)
Rated frequency	50/60 Hz
Rated (Max.) output current	167.4 A (184.1 A)
Power factor	-1~+1
THDI	<1.5% (100% load)

Output -AC (off-grid)	
Rated output voltage	690Vac, 3W+PE
AC voltage range	607~759 Vac (Adjustable)
Rated frequency	50/60 Hz
AC voltage distortion	<1.5% (100% linear load)
DC voltage component	<0.5% Un (Linear balance load)
Unbalanced load capacity	100%

General data	
Max. efficiency	99%
European efficiency	98.5%
Isolation mode	transformerless
Protection degree	IP66
Operating temperature range	-40~+60°C (>45°C derating)
Relative humidity	0-100%, non-condensing
Cooling	Smart air cooling
Max. working altitude	4000m (>3000m derating)
Communication interfaces	RS485/CAN/Ethernet
Dimensions (W x D x H)	810*275*845mm
Weight	98
	GB/T 34120-2017
	GB/T 34133-2017
	IEC 62477-1
Certification	IEC 61000-6-2
	IEC 61000-6-4
	EN 50549-1
	EN 50549-2