

INPPCS-125/0.4-W-14-A2-OS

Product Specification

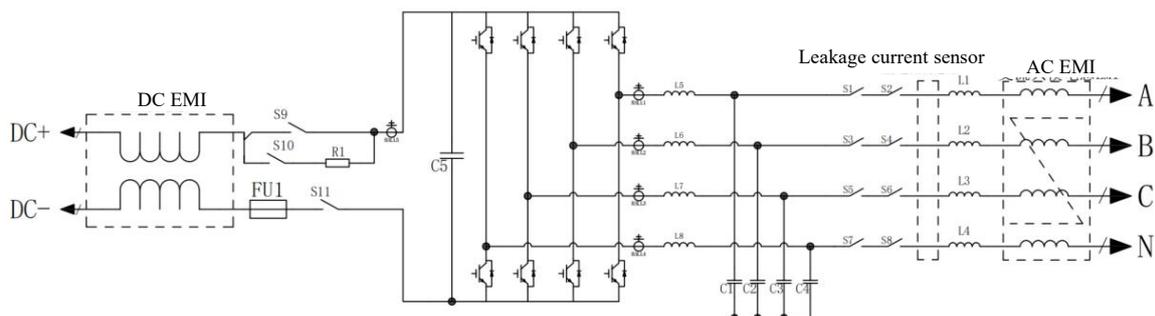
Beijing IN-POWER Electric Co., Ltd.

125 kW PCS-OS Product Specification



1 Product Features

- a) It supports a wider DC voltage range, from 600 to 1,000V, and may adapt to different battery system configurations;
- b) Compared with the traditional IGBT system, the SIC power device has higher efficiency and lower loss, and is conducive to improving project profitability for industrial and commercial users;
- c) Technical features: three-phase four-leg, hardware architecture to maintain IN-POWER's characteristics;
- d) High efficiency, up to 99%;
- e) Multi-machine grid-disconnected parallel capability;
- f) The AC side is provided with dual protection for insulation monitoring and leakage current, while the DC side has double contactors and fuses;
- g) High power density, small product size, conducive to installation in customer's cabinet;
- h) Built-in EMI, no external filters required;



2 Product Introduction

2.1 Technical parameters

Model	INPPCS-125/0.4-W-14-A2-OS	
DC Side Parameters		
DC voltage range	DC600V~1000V	Full - load voltage: DC630V-950V; limited load voltage: DC600V-630V,DC950V-1000V
Full-load voltage range	DC630V~950V	
Rated DC current	198A	
Rated DC power	125kW	
AC Grid-connected Parameters		
Rated AC power	125kW	
Overload capacity	1.1 times	Ambient temperature $\leq 40^{\circ}\text{C}$
Rated voltage	AC400V	
Rated AC current	180A	
AC access method	Three-phase four-wire	
Grid voltage range	400V (-15%~+15%)	
Grid frequency range	50Hz/60Hz $\pm 2.5\text{Hz}$	
Total harmonic distortion rate of current	$\leq 3\%$ (full load)	
Power factor	0.99/-1~1	
Current DC component	$\leq 0.5\%$	
Charge and discharge conversion time	$< 100\text{ms}$	
AC Grid-disconnected Parameters		
AC grid-disconnected voltage	AC400V	
AC voltage range	AC400V $\pm 3\%$	
AC grid-disconnected frequency	50Hz/60Hz	
Grid-disconnected output THDU	$\leq 3\%$ (linear load)	
Unbalanced load capacity	100%	
Other Parameters		
Maximum conversion efficiency	$\geq 99\%$	
Allowable ambient temperature	$-30^{\circ}\text{C}\sim 50^{\circ}\text{C}$	Full - load
Allowable relative humidity	$\leq 95\%$	No condensation

Noise	≤75dB	
Protection grade	IP20	
Altitude	3000 m	≥2000m for limited load
Size	W520mm×H240mm×D680mm	
Weight	≤70KG	
Cooling method	Forced air cooling	
Wiring, air-out direction	Primary or secondary at the front, air-in from front, air-out from rear	One wiring mode
BMS communication interface	CAN or 485	
EMS communication interface	Network interface or 485	

2.2 Product size

The handle is only used for pushing and pulling, and is not load-bearing

