



Static Transfer Switch Cabinet

Product Specification Document

廊坊英博电气有限公司

LANGFANG IN-POWER ELECTRIC CO., LTD.



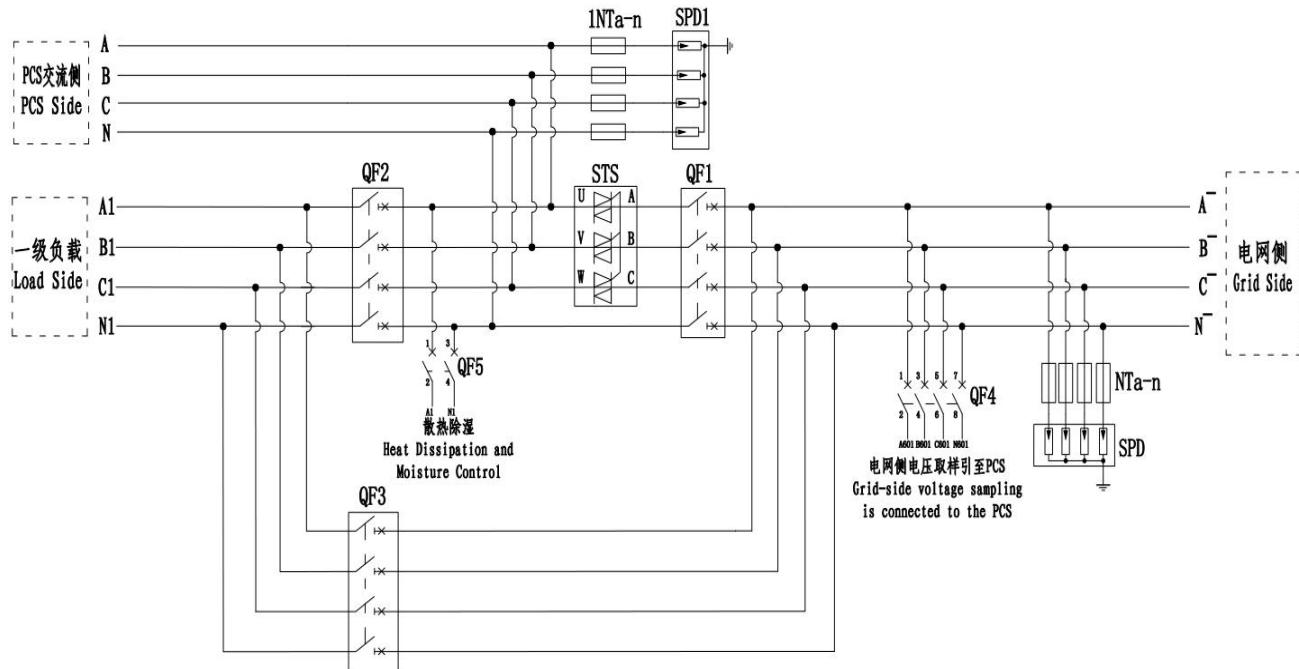
1. Product Overview

The INPSTSZ is a device designed for rapid switching between two power sources, typically used to ensure uninterrupted power supply to critical loads. In grid-connected and off-grid systems, the INPSTSZ connects to the grid during normal operation and quickly switches to a backup power source (such as a battery energy storage system) in the event of a grid failure or power quality degradation.

2. Product Features

- 2.1 High Reliability: The INPSTSZ features ultra-fast switching response, ensuring no interruption to loads during power source transitions.
- 2.2 Low Maintenance Costs: Equipped with a bypass power supply, it ensures reliable load power delivery while reducing maintenance and repair costs.
- 2.3 Independent Modular Design: The INPSTSZ adopts a standalone modular structure, facilitating easy expansion and minimizing the impact of faults.
- 2.4 Wide Range of Applications: Suitable for data centers, hospitals, industrial facilities, and other critical environments to ensure continuous power supply to essential loads.
- 2.5 High Compatibility: The INPSTSZ supports extensive control signal compatibility, making it adaptable to a broad range of scenarios.

3. Primary System Diagram

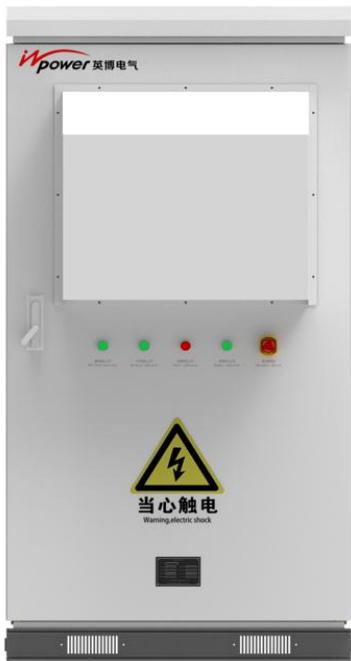


4. Product Parameters

Model		INPSTSZ-500/0.4-OS	INPSTSZ-800/0.4-OS	INPSTSZ-1000/0/0.4-OS	INPSTSZ-1250/0/0.4-OS
Grid side	Rated AC Input active Power [kW]	500	800	1000	1250
	Rated AC Input apparent Power [kVA]	500	800	1000	1250
	Max. AC Input current [A]	722	1155	1443	1804
	Nominal AC voltage [V _{a.c.}]	3L/N/PE, 400/230			
	AC voltage tolerance	-15% to +15%			
	Nominal frequency/Frequency [Hz]	50/60			
	Rated conditional short-circuit current [A]	10k			
	Overvoltage Category (OVC)	III			
Load side	Rated AC Output active Power [kW]	250	400	500	625
	Rated AC Output apparent Power [kVA]	250	400	500	625
	Max. AC Output current [A]	361	577.5	721.5	902
	Nominal AC voltage [V _{a.c.}]	3L/N/PE, 400/230			
	AC voltage tolerance	-15% to +15%			
	Nominal frequency/Frequency [Hz]	50/60			
	Rated conditional short-circuit current [A]	10k			
	Overvoltage Category (OVC)	III			
PCS side	Rated AC Input/Output active Power [kW]	250	400	500	625
	Rated AC Input/Output apparent Power [kVA]	250	400	500	625
	Max. AC Input/Output current [A]	361	577.5	721.5	902
	Nominal AC voltage [V _{a.c.}]	3L/N/PE, 400/230			
	AC voltage tolerance	-15% to +15%			

System Parameters	Nominal frequency/Frequency [Hz]	50/60			
	Rated conditional short-circuit current [A]	10k			
	Overvoltage Category (OVC)	II			
	Max. efficiency	>99.5%			
	On Grid-Off Grid switching time	$\leq 20\text{ms}$			
	Communication	Dry Contact Feedback			
	Enclosure Dimensions (W * H * D)	1000*1300*2000mm			
	Weight	700 kg	750 kg	810 kg	870 kg
	Degree of protection	IP55			
	Noise	$\leq 75\text{dB}$			
	Operating ambient temperature [°C]	-30 to 60 ($>45^\circ\text{C}$ derating)			
	Allowable relative humidity	RH $\leq 100\%$			
	Cooling method	Forced air cooling			
	Max. operating altitude	$\leq 4000\text{ m} (\geq 2000\text{m derating}; 1\% \text{ derating per 100 meters})$			
	Pollution degree	3 (outside), 2 (inside)			
	Protection Class	I			
	IK code	IK10			
	Protective Function	Over-Temperature Protection (Thyristor Switch $\geq 95^\circ\text{C}$)			

5. Product Appearance



5. 1 Front View



5. 2 Rear View



5. 3 Side View