

# EPS Series

## Application industry

- ☑ Oil & natural gas (onshore, offshore platforms, pipelines, refining, floating production and storage)
- ☑ Petrochemical (onshore, offshore platforms, pipelines, refining, floating production and storage)
- ☑ Nuclear power generation, photothermal power generation, hydrogen energy and other new energy sources.
- ☑ New materials, semiconductors and other strategic emerging industries
- ☑ Coal chemical industry
- ☑ Other industrial applications



## Industrial-grade emergency power supply EPS

- 1) The whole series of three-in-single-out design (three-phase input, single-phase output) three-in-three-out (optional).
- 2) Infinite parallel redundant system of multiple single cameras
- 3) It can accept multiple AC and DC power inputs of different phases and frequencies at the same time.
- 4) Single-phase output UPS capacity can reach 360KVA, and three-phase output UPS capacity can reach 2.5MVA.
- 1) The same capacity EPS can be directly connected in parallel.
- 2) EPS of different capacities can be directly connected in parallel.
- 3) EPS of different brands of the same capacity can be directly connected in parallel.
- 4) EPS of different capacity and different brands can be directly connected in parallel.
- 1.) Maintenance bypass cabinet
- 2.) STS-static switch The use of STS can make the two power sources switch without disturbance; when the phases of the two power sources are synchronized, 0ms switching time can be achieved

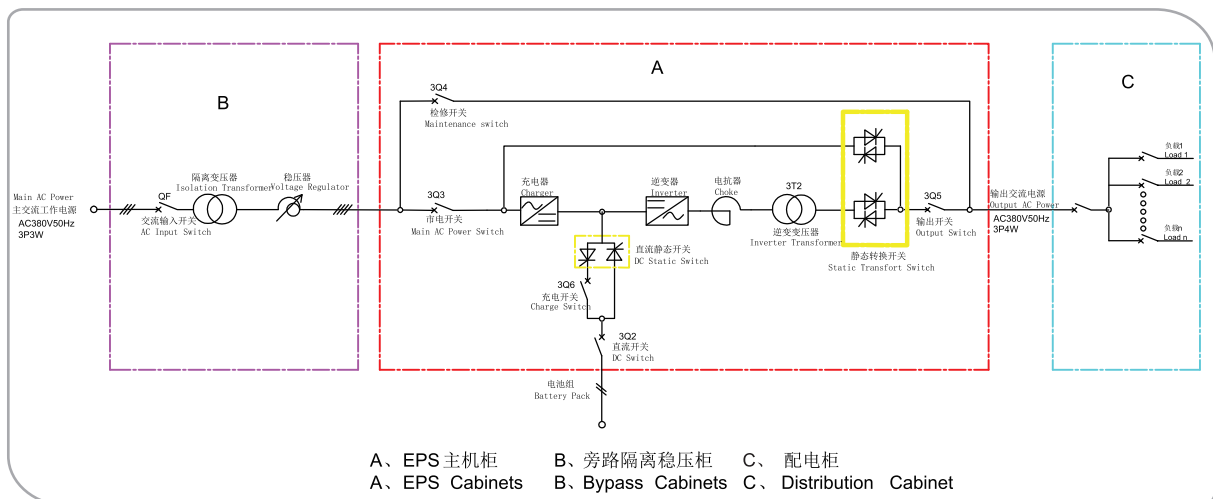
## DEP series industrial-grade emergency power supply EPS

The DEP series industrial-grade modular intelligent EPS is designed for large-scale industrial enterprises according to the characteristics of industrial system power grids. It is mainly used in emergency lighting, accident lighting, accident machine pumps, industrial transmission and fire protection systems (fire elevators, rolling doors, fans, Water pumps, sprinkler pumps, water supply pumps) and other important equipment and occasions that need to provide highly reliable uninterrupted emergency power supply. This series of products is an industrial-grade product designed according to industrial-grade standards, adopts a "plug and play" modular design; based on LDC's independent intellectual property rights of inverter magnetic parallel patent technology, which realizes unlimited parallel redundant operation, Configure the power equipment life cycle management system to realize the fault detection, automatic fault maintenance and life prediction of the equipment, This series of products is divided into two models: three-input single-output and three-input three-output. The single-machine system capacity can be up to 2.5MVA

## Application industry

- 1. Nuclear power plant
- 2. Oil & natural gas (onshore, offshore platforms, pipelines, refining, floating production and storage)
- 3. Petrochemical (onshore, offshore platforms, pipelines, refining, floating production and storage)
- 4. Coal chemical industry
- 5. Chemical industry
- 6. Other industrial applications

model		DEP series
Input	Mains voltage	AC187 ~ 242V/ AC310 ~ 450V
	Mains frequency	50Hz±10%
	Input Current	The maximum input current is 1.2 times the rated input current
	Two-way mutual investment	Optional
	Static switch	Optional
charger	Bridge rectifier	Three-phase 6-pulse controllable rectification
	Circuit structure and control strategy	DC output voltage closed loop control (PID), rectifier output current, battery charging current cut-off negative feedback regulation.
	Rated input voltage (VAC)	380V/400V/415V-25%+25%, Three-phase three-wire or three-phase four-wire
	Input frequency	50/60Hz±10%
	Charging voltage	Can be set according to battery capacity
	recharging current	Can be set according to battery capacity
battery	Maintenance-free sealed battery	
	battery voltage	110VDC/220VDC/360VDC
	Standby time	30 minutes (configurable according to user requirements)
Normal state output	The output voltage	Consistent with mains
	Output frequency	Consistent with mains
	efficiency	≥99%
Emergency state output	The output voltage	Single-phase 220V±1%, three-phase 380V±1%
	Output frequency	50/60Hz±0.1Hz
	Rated output power factor	0.8
	100% load regulation rate	< ± 1 %
	Voltage total harmonic distortion (rated load)	< 3 %
	Dynamic voltage transient and recovery time	0~5 ms, dynamic voltage transient ≤±30%; 5-20 ms, dynamic voltage transient drop to ≤±14%; 20-100 ms, dynamic voltage transient drop to ≤±5%; (GB7260.3 —The first-class dynamic performance of 5.3.1 is 20-100 ms, and the dynamic voltage transient drops to ≤±10% GB7260.3-6.3.7)
	efficiency	> 95% (at rated load)
	Number of output branches	4 channels (can be expanded according to user requirements)
	Output branch characteristics	Continuous type, non-continuous type, fire linkage type
	Overload characteristics	Normal output at 120%; ≥30 seconds at 150%
Conversion time	It is 0 milliseconds to switch from grid power supply to emergency state power supply	
	It is 0 milliseconds to switch from grid power supply to emergency state power supply	
display	LED+LCD	
Operating environment temperature	-30°C~+55°C	
Relative humidity	0~90%	
Altitude	≤2500 meters; when 2500 ~ 5000 meters, add system ventilation device or use derating	
Adapt to the load	Various lighting loads or other capacitive and inductive motor loads	
noise	Mute and no noise when the power grid is powered, and the noise is less than 60dB during emergency power supply	
size and weight	See the size/weight list	
Door opening method	Main cabinet: front door; battery cabinet: front and rear doors	
Way in and out	Bottom inlet and outlet (standard type) according to user requirements	



**Industrial Special three-in single-out, three-in three-out system schematic diagram**