

CONSNANT®

OUTDOOR INDUSTRIAL UPS

CNW310 Series 6~10KVA



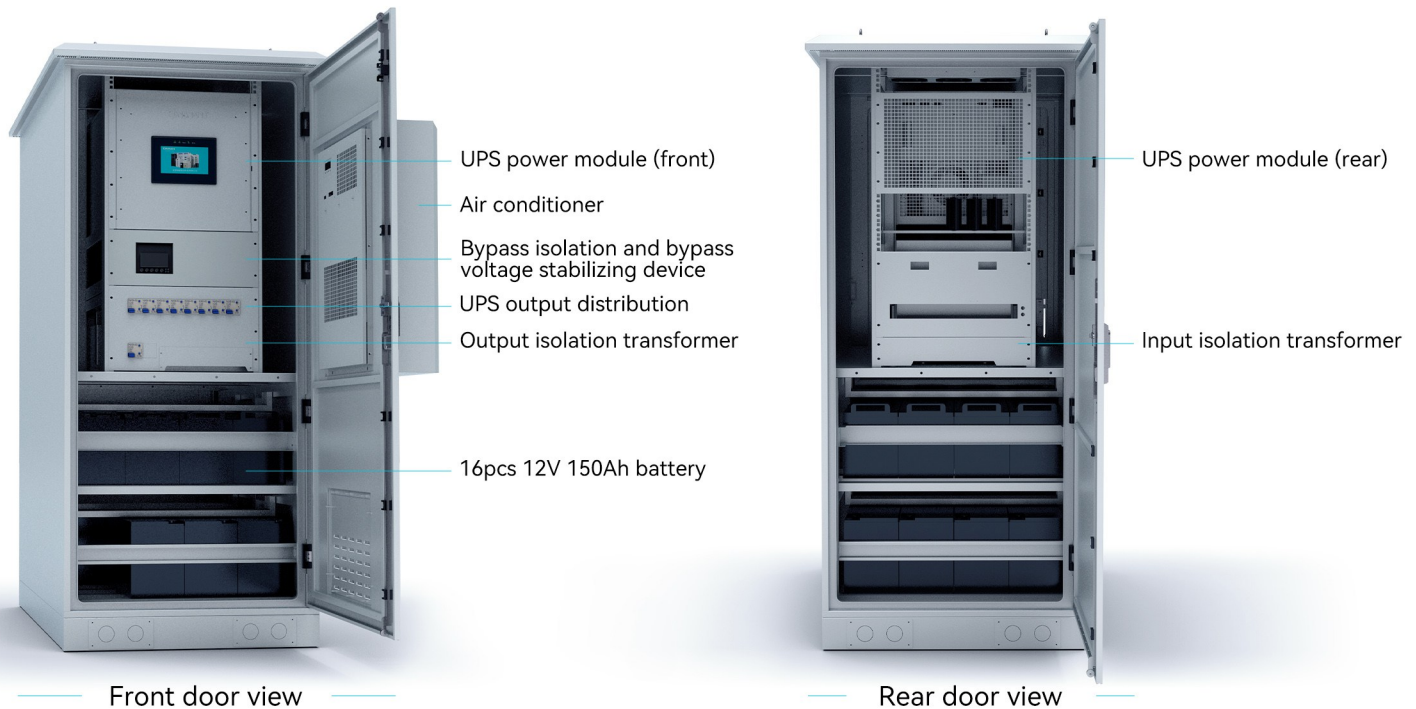
Outdoor Industrial UPS

CNW310 Series 6~10KVA



Application

Outdoor communication/network equipment and traffic control system are usually used in corners of city, remote roads, mountainous areas, deserts, islands and other harsh environments in which the quality of the power grid is very poor (the voltage has been in the range that is lower than 160V or higher than 260V for a long time, and the frequency has changed abnormally). And the outdoor low frequency UPS CNW310 series is specially designed for these equipment. It has unique features like high temperature resistance, frost resistance, corrosion resistance, dust resistance, water resistance, lightning protection, and remote control and detection. It also has wide ranges of input voltage and frequency that make it meet the requirements of the outdoor power grid and provide stable power supply.



Features

- Double-conversion online design, provides continuous pure sine wave AC power supply.
- Input and output are equipped with dual isolation transformers, provides double protection that is more secure.
- Equipped with a bypass isolation and bypass voltage stabilizing device, enables better compatibility with generator access.
- Wide input voltage range and frequency range (-45% to +35% of rated voltage and $\pm 10\%$ of rated frequency), enables to well adapt to the power grid.
- Powerful comprehensive protection function.
- The protection level can reach IP56.
- Unattended and intelligent monitoring.
- The input and output system can be 1phase in / 1phase out, 3phase in/1phase out, or 3phase in / 3phase out.

CONSNANT

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Technical data



Model	CNW310- 6KVA	CNW310-10KVA
Capacity	4.8kw	8kw
Type	True online double conversion UPS with dual isolation transformer	
Normal Voltage	380/400/415Vac 3phase+neutral+ground	
Frequency	50Hz/60Hz	
Built-in	Bypass isolation and bypass voltage stabilizing device	
Input		
Input Voltage Range	380/400/415Vac $\pm 15\%$, 3phase+neutral+ground	
Input Frequency Range	50/60Hz $\pm 5\%$	
Soft Start	0-100% within 10 seconds	
Maximum Input Current	27A	
Bypass Input		
Voltage Range	400V $\pm 15\%$ 3phase+ground (can be set from the control panel to +5% ~ +25%)	
Frequency Range	50/60Hz (automatic detection) $\pm 15\%$	
Inverter to Bypass	< 2ms	
Output		
Rated Output Voltage	230V $\pm 1\%$ (steady load), 230V $\pm 3\%$ (dynamic load)	
Rated Output Current	18	
Output Voltage Setting	Output voltage can be set through LCD, range (210 - 240V)	
Crest Factor	3:1	
Frequency Accuracy	50/60Hz $\pm 0.05\text{Hz}$ (battery powered)	
Power Factor	0.8	
Output Voltage Waveform Frequency Regulation	± 0.05	
Adjustment Range of AC Output Voltage	± 2	
Voltage Transient Change under Dynamic Load	In a cycle of battery charging and discharging, the fluctuating of the output voltage from no-load to full-load will not exceed 5V	
Waveform Distortion	Linear load < 5%	
Steady State Response Time	<10ms	
Overload Capacity	110% (continuous); 125% for 10 min; 150% for 1 min	
Battery		
Battery Type	Lead acid (standard) / lithium (optional)	
Nominal Battery Voltage	192VDC	
Battery Capacity	150Ah	
Floating Charge Voltage	216VDC	
Equalizing Charge Voltage	224VDC	
Cut-off Voltage	168VDC	
Charging Current	Maximum 30A	
DC Bus Ripple	<1% (100% load within 2H)	
Display		
LCD Touch Screen	DC voltage, DC current, charge /discharge, output voltage, output current, input voltage, frequency, system temperature ...	
Communication		
Computer Interface	MODBUS TCP / IP (optional), RJ45	
Dry Contact Function	1. Battery discharge; 2. battery low voltage; 3. remote control to bypass output	
Alarm	Battery low, mains failure, low-voltage, over-voltage, over temperature, overload	
Working Environment		
Working Temperature	-10°C ~ 50°C	
Relative Humidity	Maximum 95% (non-condensing)	
Working Altitude	<1000m (the power is derated by 1% for every 100m rise above 1000m, maximum 4000m)	
Storage Temperature	-5 ~ 45°C	
Storage Humidity	0 ~ 90%	
Noise (1 meter)	48 ~ 54dB	
Physical Characteristics		
Cooling Mode	Air conditioner + fan	
IP Rating	IP56	
Incoming Line Way	Bottom inlet	
Maintenance	Front, rear	
Estimated Weight (kg)	1246	
Dimension: WxDxH (mm)	756 * 1200 * 1856	