

NCTS-QSTROM PRO 20kVA / 18kW

Online double conversion 3Phase with DSP control UPS

NCTS-QSTROM PRO 20K3940

GTIN 6295151550144

Features

- High power density design
- N+X parallel redundancy, support maximum 4 units in parallel
- Online double conversion with DSP control
- Input current harmonic: < 3%
- Wide input voltage range: 208-478Vac
- Wide input frequency range 40-70Hz
- Optimization battery group, the quantity of battery
10-30KVA: 16/18/20pcs (30-50pcs supportable)
40KVA: 30-50pcs
- Maximum charging current up to 20A (Settable)
- Dual input source (Optional for standard unit)
- Colorful 2.4 inch TFT LCD display and 7 inch LCD display LCD are optional
- Versatile LCD human-computer interface
- Generator compatible
- ECO mode operation for energy saving
- Intelligent fan speed regulation
- Self-testing when UPS startup
- 50/60Hz frequency converter mode
- Cold start
- + The output can meet 100% unbalanced load
- Multiple protection function: short-circuit, overload, overheat, battery overcharge and overdischarge, output low voltage and fan fault alarm
- Multiple communication interface: USB, RS232, RS485, Parallel port, Dry contact, Intelligent slot, SNMP card (Optional), Relay card (Optional), Battery temperature sensor (Optional)



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Technical Specifications

Model: NCTS-QSTROM PRO 20K3940

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Capacity	20kVA / 18KW	
INPUT		
Nominal voltage	380/400/415Vac (3Ph+N+PE)	
Operating voltage range	305-478Vac (Full load); 208-478Vac (50% load)	
Operating frequency range	40 -70Hz (50/60Hz Auto-Sensing)	
Power factor	≥0.99	
Bypass voltage range	Max.voltage: 220V: + 25% (Optional + 10%, + 15%, +20%) 230V: +20% (Optional + 10%, + 15%) 240V: + 15% (Optional + 10%) Min.voltage: - 45% (Optional - 20%, - 30%)	
Frequency protection range	50/60Hz + 10%	
ECO range	Same as bypass	
Harmonic distortion (THDi)	≤3% Linear load	
OUTPUT		
Output voltage	380/400/415Vac (3Ph+N+PE)	
Voltage regulation	+1%	
Power factor	0.9	
Output frequency	Line mode	+1%/+2%/+4%/+5%/+10% of the rated frequency (Optional)
	Bat. mode	50/60 (+ 0.1%)Hz
Transfer time	AC mode to Bat.mode	0ms
	Inverter to Bypass	0ms
Output waveform	Pure Sinewave	
Crest factor	3:1	
Harmonic distortion (THDv)	≤2% Linear load ≤5% Non linear load	
Overload	AC mode	≤110% 60min, < 125% 10min, ≤ 150% 1min, > 150% immediately turn to bypass
	Bat.mode	≤110% 10min, ≤125% 1min, ≤150% 5s, > 150% immediately shut down
EFFICIENCY		
Efficiency	Up to 94.5%	
BATTERY		
Battery voltage	Standard unit	± 120Vdc 40pcs 12V/9Ah batteries, (2*20pcs)
Charge Current	Standard unit	2.7A
PHYSICAL		
Dimension W×D×H	Standard unit	250×900×868mm
Net weight	Standard unit	187kg
ENVIRONMENTAL		
Operating temperature	0~40°C	
Storage temperature	-25-55°C (No battery)	
Humidity range	0-95% (Non condensing)	
Altitude	<1500m, derating required when>1500m	
Noise level	<58dB	
STANDARDS		
Safety	IEC/EN 62040-1, IEC/EN 62477-1	
EMC	IEC/EN 62040-2, (IEC61000-4-2, IEC 61000-4-3, IEC 61000-44, IEC 61000-4-5, IEC 61000-4-6, IEC 61000-4-8, IEC 61000-4-11, IEC 61000-2-)	

1. Specifications are subject to change without prior notice
2. Data above are typical values for reference only, not as a basis for engineering design

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