

CX Series

40 ~ 640kVA

Modular UPS (40k module)



Introduction

CX 40-640kVA is a new generation three-in-three-out modular UPS launched by our company. The products adopt digital control, modular design and N+X parallel redundancy technology,

which integrates the most advanced technical achievements in the field of power electronics and automatic control. It is benchmarking product in the modular UPS field. The capacity covers

all power sections between 40kVA and 640kVA, which is convenient for users to configure flexibly and gradually invest. It can be 4 parallel to 2560kVA.

Applications

Medium data centers, server rooms Telecom, IT equipment, group enterprises, and other mission-critical applications.

Benefits

- Modular design, improves maintainability and reliability
- ECO mode operation for energy saving
- Cold start for easy operation
- Communications for network management and remote monitoring
- N+X redundancy, expanding as required, saves initial investment

Features

- Centralized bypass, centralized control, modular design
- Online double conversion and three level technology
- DSP digital control technology
- Wide input voltage range
- Output power factor 1
- High power density with size 440mm*620mm*2U
- Cold start (battery start up)
- ECO mode operation
- intelligent battery management
- N+X redundancy
- Communications: RS485/Dry contact card/SNMP option
- Optional emergency power off (EPO) function
- Compatible with lithium battery applications



MODEL		CX160-40	CX240-40	CX320-40	CX400-40	CX480-40	CX640-40
Capacity							
UPS Cabinet		40-160 kVA	40-240 kVA	40-320 kVA	40-400 kVA	40-480 kVA	40-640 kVA
UPS module		50 kVA					
Model quantity		4	6	8	10	12	16
Input							
Phase		3 Phase 4 Wires and Ground					
Rated Voltage		380/400/415Vac					
Voltage Range		138- 485Vac					
Frequency Range		40Hz-70Hz					
Power Factor		≥0.99					
Current THDi		≤3%(100% linear load); ≤5%(100% non-linear load)					
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: ± 10%					
Power Walking In		Yes					
Bypass back irrigation		Bypass back irrigation					
Generator access		Yes					
Output							
Phase		3 Phase 4 Wires and Ground					
Rated Voltage		380/400/415Vac					
Power Factor		1					
Voltage Regulation		± 1%					
Frequency	Utility Mode	± 1%, ± 2%, ± 4%, ± 5%, ± 10% of the rated frequency(optional)					
	Battery Mode	(50/60 ± 0.1%)Hz					
Crest Factor		3:1					
THD		≤2% with linear load; ≤4% with non linear load					
Efficiency		96%					
Overload		≤ 110%, to bypass after 60min; ≤ 125%,to bypass after 10min; ≤ 150%.to bypass after 1min					
Battery							
Voltage		± 180V/ ± 192V/ ± 204V/ ± 216V/ ± 228V/ ± 240/ ± 252/ ± 264/ ± 276/ ± 288/ ± 300Vdc (30/32/34/36/38/40/42/44/46/48/50pcs optional)					
Module change current		Default 10A, max 15A					
Transfer time		Utility to Battery: 0ms; Utility to bypass: 0ms					
Protection							
Alarm		overload, utility abnormal, UPS fault, battery low, etc					
Protection		short circuit, overload, over temperature, battery low, fan fault alarm					
Communication							
Communication interface		USB, CAN, RS485, FE, Parallel card, Dry contact card, SNMP card(optional), LBS (optional), temperature sensor (optional)					
Environment							
Operating Temperature		0 °C - 40 °C					
Storage Temperature		-25 °C - 55 °C (no battery)					
Humidity		0 - 95% (non-condensing)					
Altitude		< 1500m					
Noise level		<70dB					
Physical							
Dimensions D*W*H(mm)	UPS cabinet	850*600*2000			850*1200*2000		850*2400*2000
	UPS Module	620*440*131					
Net Weight (kg)	UPS cabinet	203	235	407	443	513	919
	UPS Module	33					
Standards							
Standards		EN62040-1, EN62040-2, EN62040-3					