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CELTA Pro CP Modular UPS Solution

CP1 20-120kVA

CP2 50-600kVA

FINANCE	TELECOMUNICATION	ENERGY	MEDICAL	GOVERNMENT	**VFI** type UPS ONLINE	TOWER	PF= **1,0** POWER FACTOR	service SERVICE

Power Modular 30kW, 50kW

Design Idea

SATRON CELTA Pro CP series 3-in 3-out UPS, adopts advanced 3-level inverter technology and reliable redundancy design from components to the whole machine. It has the advantages of high efficiency, high power density, easy expansion, capacity expansion as required and small occupied area, and provides reliable, stable and pure green power for loads.

Product Description

- Modular capacity: 30kW, 50kW
- Cabinet capacity: 120/200/300/400/500/600kVA
- Rated voltage: 380/400/415Vac (L-L)
- Rated frequency: 50/60Hz
- Topology: online double conversion UPS

Application Fields

- Large data center, communications
- Government, education
- Finance, transportation, energy
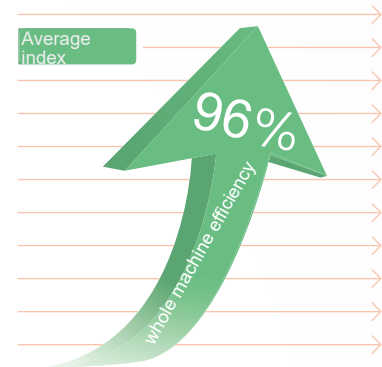

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High Reliability

- Wide input voltage range -60%~ +25% with high grid adaptability
- Hot-swappable function ensures uninterrupted operations during maintenance
- Dual system control card prevents single failure point
- Intelligent fan control and redundant design for energy saving: Parallel expansion up to four systems without requiring additional hardware

High Performance

- High efficiency in online mode (>96%) reduces heat dissipation and limits power consumption costs
- THDi≤3% and input power factor 0.99 reduce the pollution to grid and reduce upstream investment costs
- Full rated power (kVA=kW) to maximize power availability
- Efficiency>99% in ECO mode gives significant cost reduction
- Advanced power module sleep mode, prolong the service life of power module
- Allow 100% three phase unbalance load
- Frequency converter function (60Hz to 50Hz or 50Hz to 60Hz)
- Self-load test function without load enables on-site commission
- Small footprint, 300kW only covers 0.5m^2

Average index

96%

whole machine efficiency

Intelligent Management

- Fault Trace Management (FTM) for convenient failure analysis(80ms waveform record)
- 7-inch HMI enables more parameters setting and status showing
- Intelligent battery charging system, prolong the service life of batteries
- Intelligent battery management, 28-46 pcs batteries per group allow customers to get the faulty battery out instead of replacing it
- Common battery bank sharing in parallel system

More Options

Power Distribution Cabinet

- Design the power distribution cabinet according to your integrated solution
- Backfeed protection

Flexible Network Management

- Optional internal SNMP adapter
- Intelligent management software

Intelligent Battery Monitoring System BMS2000:

- Smart status diagnosis
- Abnormal status real time alarming
- Event logs recording
- Parameters real time monitoring

Smoke alarm

Temperature and humidity monitoring system

SNMP

CP UPS

Router

Local Monitor

WWW

Remote Monitor

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CELTA Pro CP1-2 Technical Specifications

MODEL	CP33120	CP33200	CP33300	CP33400	CP33500	CP33600
Power Module	CP1-3330-J	CP2-3350-J				
Capacity (kW)	30	50				
INPUT						
Rated Voltage (Vac)	380/400/415					
Voltage Range (Vac)	L:L 138~485					
Input Frequency (Hz)	40~70					
Bypass Voltage Range (Vac)	-15% (-20%/-30% optional) ~+15%(+10% /+20% optional)					
Power Factor	≥0.99					
THDi	3% (linear load)					
Phase	3Φ4W+PE					
Battery Voltage (Vdc)	±192 (±168~±276 settable)	±192 (±180~±276 settable)	±240 (±168~±276 settable)			
Charging Current (A)	N×10 Maximum (N: the number of power modules)					
OUTPUT						
Capacity (kVA)	120	200	300	400	500	600
Power Factor	1					
Phase	3Φ4W+PE					
Waveform	sine wave					
Voltage (Vac)	L-L:380, 400, 415±1%					
Frequency (Hz)	50/60± 0.2% (battery mode)					
Three Phase Difference	≤1 degrees					
THDv	≤1% (linear load, full load), ≤4% (nolinear load, full load)					
Static Bypass Transfer Time	0					
Max. System Efficiency	97%					
Parallel Mode	Advanced no-master-slave parallel technology, N+1 redundancy					
Overload Capacity	106-110% load for 60mins, 111%-130% load for 10mins, 131%-150% load for 1 min, 151%-200% load for 200ms					
GENERAL						
Working Temperature (°C)	-5~40					
Storage Temperature (°C)	-40~70					
Relative Humidity	0%~95%, no condensing					
Battery Type	Lead-acid batteries and lithium iron phosphate batteries					
Communication Interface	RS485, RS232, dry contact (SNMP optional)					
Noise (dB)	< 65	< 70				
Dimension (W×D×H) (mm)	600×860×2000			1200×860×2000		
Weight (kg) — Cabinet	180	224	236	427		
Weight (kg) — Bypass Module	17	19	25	25	31	31
Weight (kg) — Power Module	27	33				

● Specifications are subject to change without notice;

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