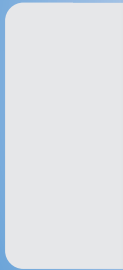


CASTLE 3C3 PRO

15-80kVA

Power Management Expert



พ.ร.บ. 1291 เล่มที่ 1 - 2553
พ.ร.บ. 1291 เล่มที่ 2 - 2553
พ.ร.บ. 1291 เล่มที่ 3 - 2555



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Crucial moment, Powering your business

SYNDOME UPS provide reliable protection for critical equipment and data

- Higher power density, more power output
- Wider input range, higher efficiency
- Ultra low noise, multiple configurable options
- High quality LCD with wide view



15 - 40kVA 60 - 80kVA BATTBANK - 100Ah

Power Rating: 15/20/30/40/60/80kVA
Topology: Double conversion topology on-line UPS
High frequency IGBT Tower design

Input & Output: 220V/380V 4-Wire
Frequency: 50/60 Hz
Key Feature:

- 0.9 output factor
- Parallel up to 4 units
- Intelligent battery performance management
- ECO mode
- Battery quantity adjustable
- Easy installation and maintenance

Typical Application

- Small, Medium Data Center
- Computer Room
- Telecom
- Automation Control System
- Security and Surveillance System
- CCTV System
- Production Process Control
- Petro Chemical Industry



Compact-Size on Footprint

3C3 PRO MODEL	W (mm)	D (mm)	H (mm)	S (m ²)
3C3 PRO - 15KS	420	715	900	0.30
3C3 PRO - 20KS				
3C3 PRO - 30KS				
3C3 PRO - 40KS	600	720	1200	0.43
3C3 PRO - 60KS				
3C3 PRO - 80KS	485	950	1420	0.46
BATTERY MODEL				
BATTBANK - 100Ah				

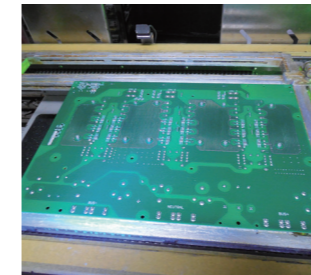


Enhance Environmental Adaptability

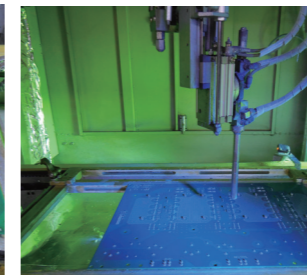
Anti-Corrosion Production

PCBA corrosion is one of the key reasons leading to UPS components failure, especially in coastal areas. SYNDOME applies advanced PCBA coating technology, offering customers an excellent anti-corrosion performance.

- **Optimized Programming**
According to the system design and air distribution, we directly program on the equipment to achieve on-demand spraying, meanwhile considering the possible salt spray and dust accumulation probability.
- **Automatic Coating Process**
Automatic coating technology adopted, the coating precision and consistency is highly improved, comparing with manual coating technology.
- **Blue-ray Detection**
Assisted with blue-ray detection technology, PCBA coating quality is significantly improved.



PCBA before Coating



PCBA after Coating

Dustproof Design

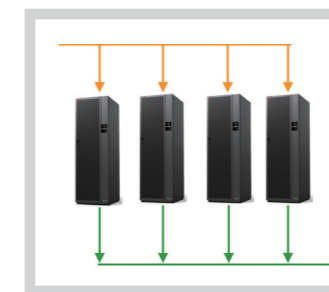
3C3 PRO offers standard air filter kits, which prevent the dust out of the UPS and improves the environmental adaptability. The filtration kit meets with

- Easy disassemble and clean, low maintenance cost;
- Flame resistant;

In addition, the internal design of 3C3 PRO optimizes the internal air flow distribution, which significantly decreases the dust deposition.

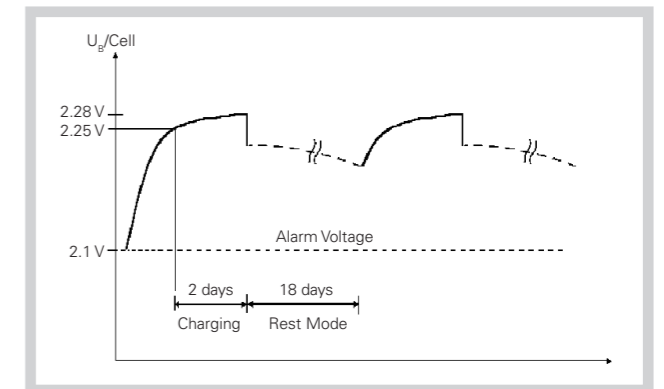
Leading Parallel Technology

3C3 PRO is embedded with internal parallel kits powering by high reliability CAN bus. With better output voltage regulation, perfect load sharing and active protection, 3C3 PRO assure the reliability and redundancy of the paralleling power system. 3C3 PRO offers more excellent performance in paralleling and improves the output accuracy.



SYNDOME Intelligent Battery Management Technology

3C3 PRO adopts the advanced 3-stage charging technology. In the first stage, it charges the battery up to 90% capacity with high current. In the second stage, it charges the battery to 100% capacity with constant voltage. In the third stage, it stays in rest mode. The 3-stage charging method can extend the battery life cycle avoiding long-time floating charge issues. SYNDOME intelligent battery management technology can accurately forecast battery working mode and remind your customers of potential malfunction.



3C3 PRO supports flexible battery quantity configuration. Customers possess flexibility to choose different battery capacity and quantity in the backup solution. Even in the on-run mode, the battery quantity configuration can be quickly adjusted to disassemble the malfunctioning battery, while the whole UPS system can guarantee a constant power supply.

CASTLE BATTERIES

— — Maintenance-free Sealed Lead-acid UPS Batteries

CASTLE C12V series batteries are being designed with more focusing on compatibility with SYNDOME UPS and system. Compare to other batteries in the market, CASTLE C12V series batteries can provide longer float charging life time and more powerful discharging characteristics.



3C3 PRO

SPECIFICATION

MODEL	SYNDOME	3C3 PRO 15 KS	3C3 PRO 20 KS	3C3 PRO 30 KS	3C3 PRO 40 KS	3C3 PRO 60 KS	3C3 PRO 80 KS
CAPACITY	KVA	15	20	30	40	60	80
	KW	13.5	18	27	36	54	72
Topology		True On-line Double conversion topology on-line UPS High frequency IGBT					
Configuration		3 Phase 4 Wire + PE					
Parallel		up to 4 units in parallel					
INPUT	Rated voltage	220/380, 230/400, 240/415 Vac (Selectable)					
	Voltage range	-45% ~ +25%, depends on load percentage					
	Power factor	0.99					
	THD(i)	< 3%					
	Rated Frequency	50/60Hz auto sensing					
	Frequency range	42-72Hz					
OUTPUT	Power factor	0.9					
	Efficiency	Up to 95% in online mode; >98% in ECO mode					
	Rated voltage	220/380, 230/400, 240/415 V ac (Selectable)					
	Voltage range	± 1%					
	Rated Frequency	50/60Hz					
	Frequency range	± 0.1%					
	Overload Capacity	<105% continuous run; 105%-125% 10min; 126%-150% 1min					
	THDv.	≤ 2% THD (Linear Load); ≤ 4% THD (Non-linear load)					
BYPASS	Crest factor	3:1					
	Internal static switch	Standard					
	Bypass voltage	380/400/415 V ac ±15% (Selectable)					
Transfer Time	Maintenance bypass switch	Standard					
	Mains fail or recovery	Zero					
Battery	Overload auto-restart	20 seconds					
	Type	VRLA					
	Backup time	Varies from battery capacity and load situation					
Charger	Battery Quantity	15KS/20KS/30KS/40KS/60KS/80KS: 28-36 PCS adjustable, 32 PCS as default					
	Voltage & Current	Can be adjustable depending on battery					
Communication	Recharge time	< 8 hours to 90%					
	Standard	RS232, USB, 2 Com slots, 3 Building alarm, EPO					
Environment	Optional	SNMP/WEB, Modbus/Ethernet, AS400, NMC					
	Running temperature	UPS:0-40°C					
	Humidity	5% ~ 95%					
Alarm	Noise level	15 - 20KVA ≤ 55 dBA @1 meter front side; 30-40KVA ≤ 62 dBA@1 meter front side; 60-80KVA≤65 dBA@1 meter front side					
	Alarm	Main fail, Battery low, Over load, Fault					
Display	LED	Main, Bypass, Charger/Battery, Inverter					
	LCD	Status, kVA/KW, V in, I in, F In, V Out, I Out, F Out, % Load, V Battery, I battery Battery Capacity, Battery time run					
Dimension	W*D*H (mm)	420*715*900			600*720*1200		
Regulation	Safety	IEC/EN 62040-1					
	EMC	IEC/EN 62040-2					
	Performance	IEC/EN 62040-3					
Quality Management		ISO 9001:2015, ISO14001:2015					
Certification		TIS 1291 Part1-2553, TIS 1291 Part2-2553, TIS 1291 Part3-2555 C3					

