

# Centrio 3C3 20-80KVA

## Series XII

### Three-phase / Three-phase units

#### *On-line protection for all critical load*

*The CENTRIO 3C3 Series XII is design to provide best protection for small and median size data center, network management center, server room, hospital, office, and industrial applications.*



#### The excellent performance:

- IGBT based, high frequency rectifier and inverter design to achieve up to 93% - 94% efficiency (Mains mode and Battery mode), and low input current THD (<3%).
- ECO mode to achieve up to 98% efficiency for energy saving.
- Strong over load capability, 10 minutes for 125% overload, and 1 minute for 150% overload.
- Wide input range which is suitable for very unstable power supply situation.
- Generator input acceptable.
- Power Factor Correction achieve input PF 0.99.

#### High performance DSP processor

- The digital Ti DSP controlling chip provides precise data processing capability with excellent performance in output and reliability.

#### Flexible battery arrangement

- Flexible arrangement of the amount of accumulators in each battery (32, 30, or 28) can be achieved through the parameter resetting in the Centrio 3C3 series UPS, which effectively solves the question that the damage of some individual cell may influence the life of the whole battery unit by eliminating the damaged ones from the unit in the process of using UPS.

#### N+X parallel redundancy (compatible to battery share in the parallel mode)

- The maximum of the inbuilt parallel mode is 6 to 8 UPS without any other external accessories, which helps the customer to extend the system capacity with low cost. N stands for the minimum amount of UPS in the load and X stands for the amount of redundant UPS in the system. The bigger the number of X is, the higher the reliability of the system.

The advanced controlling strategy is adopted to save the customer's investment by sharing a battery unit in the parallel redundancy mode.

#### Excellent performance in industrial environment protection

- Just with the standard product, IP21 protection level (protecting the machine from the intrusion of solid material with the diameter larger than 12mm or the water drops) is achieved. If a higher protection level is required, the optional dust-proof accessories can help to increase the protection level in industrial environment and safeguard the UPS's security of operation in bad environment.

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Centrio 3C3 20-80KVA						
Model		3C3 20K	3C3 30K	3C3 40K	3C3 60K	3C3 80K
Capacity	VA/W	20KVA/16KW	30KVA/24KW	40KVA/32KW	60KVA/48KW	80KVA/64KW
Input	Connection	3-Phase + N + G				
	Rectifier Type	IGBT-based Controlled PFC				
	Norminal voltage	380/400/415 VAC(L-L); 220/230/240 VAC(L-N)				
	Input Voltage	380(-45%~ +25%)VAC(when input voltage<75%, output power derating is required)				
	Input Frequency	50 or 60 Hz (Accepted from 40 to 70Hz)				
	Input Current THD	3%				
	Input Power Factor	≥0.99				
	Bypass Voltage	380(-15%~ +15%)VAC			380(-20%~ +15%)VAC	
Output	Inverter Type	IGBT-based				
	Output Voltage	380/400/415VAC; 220/230/240 VAC(L-N)				
	Output Frequency	50Hz/60Hz±8%track bypass frequency input ;when input frequency exceeds ±8% or under the mode of battery power supply, frequency output should be±0.1%of nominal				
	Output Voltage THD	1% (max)				
	Max.Load Crest Factor	3:1				
	Transient Volt.Resp	10ms to recover ± 5% of Nominal Voltage for 0% to 100% or 100% to 0% step load				
	Max.Learning PF Load	Up to 0.9				
	Overload Capability	≥10min 110%<Load125%				
≥1min 125%<Load150%						
Nominal battery voltage/Rated charging voltage	Battery Type	VRLA (Valve Regulated Lead Acid)				
	28 Pcs	±168VDC/±189VDC				
	30 Pcs	±180VDC/±202.5VDC				
	32 Pcs	±192VDC/±216VDC				
Efficiency	AC Mode	Up to 93%			Up to 94%	
	Battery Mode	Up to 93%			Up to 94%	
	ECO Mode	Up to 98%				
Operating Environment	Storage Temp	-25 to 55℃				
	Operating Temp	0 to 40℃				
	Ambient Humidity	0 to 95% (non_condensing)				
	Altitude	≤1000m				
Main unit	Dimension(W×D×H) mm	420×643×956	470×710×1150	470×710×1150	600×800×1850	600×800×1850
	Weight(Kg)	82	110	114	282	306