

Centrio DSP 6 - 20KVA

Series V

Single-phase/ Three-phase units

On-line protection for electronic data storage

The CENTRIO DSP Series V is the mighty turbo in the single phase / three-phase CENTRIO family of uninterruptible power supplies by HELIOR.

The CENTRIO DSP Series V provides reliable protection, also high-end applications and is extensively equipped to master all eventualities.



CENTRIO DSP using new technology:

- Texas Instruments DSP processor
- Motorola Microprocessor
- Module design
- Advanced Current Control
- IGBT power component
- Power Factor Correction
- Online Maintenance

CENTRIO DSP- Provides Paralleled Redundancy

N+X Paralleled Redundancy Program Provides You With More Reliability. In case one unit UPS goes into faulty, the other additional unit of UPS remains working and provides high quality power supply without interruption. At the mean time, ACC (Advanced Current Control) technology enables load current to be participated by every paralleled UPS equally and extends the longevity of UPS.

When more power supply is required due to increasing load of equipments, only the extended part of UPS is needed to parallel into the power system, rather than buying another new UPS, which is giving you more flexibility on capacity and less expenditure on investment.

CENTRIO DSP: True on-line double conversion technology with integrated bypass mechanism

- Compacted Size with higher power factor occupies the smallest space comparing to other online UPS of same capacity.
- Online maintenance programmed enables the maintenance to be carried out without switching off the UPS, even mains cut off during maintenance the delicate equipments will not be affected.
- Cold Start Function and Automatic Restart Function.
- Intelligent charging method extends the longevity of batteries.
- Approximately 1 input power factor improves greatly the using of main power.

HELIOR
INSURE your SYSTEM



Technical Specifications					
MODEL	C6K(S)L*	C10K(S)L*	3C10KSL*	3C15KSL*	3C20KSL*
Power(VA/Watt)	6000VA/4200W	10000VA/7000W	10000VA/7000W	15000VA/10500W	20000VA/14000W
INPUT					
Voltage & Voltage Range	220 VAC, 1 Phase + Neutral	220 VAC, 1 Phase + Neutral	380 VAC, 3 Phase + Neutral	380 VAC, 3 Phase + Neutral	380 VAC, 3 Phase + Neutral
Voltage Tolerance	176 - 276 VAC \pm 3%	176 - 276 VAC \pm 3%	304 - 478 VAC \pm 3%	304 - 478 VAC \pm 3%	304 - 478 VAC \pm 3%
Power Factor	\geq 0.98	\geq 0.98	\geq 0.95	\geq 0.95	\geq 0.95
Current (nominal)	23 Ampere	37 Ampere	13 Ampere / Phase - 39 A	23 Ampere / Phase - 69 A	30.3 Ampere / Phase - 91 A
Input Fuse	32 A NFB	50 A NFB	63 A NFB	100 A NFB	100 A NFB
Frequency & Frequency Range	50 Hz, 46 - 54 Hz				
Working with Gen Set	Perfect Voltage and frequency Compatibility				
OUTPUT - INVERTER and BYPASS					
Load Power Factor Range	0.65 inductive - 1.0 resistive				
Voltage Wave Form	Sinusoidal				
Voltage & Voltage Tolerance	220 / 230 / 240 VAC \pm 1%				
Dynamic Response	At 50% - 100 - 50% unbalanced load, max voltage decline $<$ \pm 5%				
Recovery Time	At Dynamic load Changes, Output Voltage recovery time is 60 msec \pm 1%				
Total Harmonic Distortion	For Linear Load \leq 2%, Non Linear Load \leq 6%				
Frequency & Frequency Range	50 Hz / Mains 46-54 Hz, Battery Mode \pm 0.1% (0.05 Hz)				
Crest Factor	3:1				
Over Load (Mains)	For 105% - 130% load 10 mins., for $>$ 130% load transfer to bypass after 1 sec, shutdown after 1 min at overloaded bypass				
Over Load (Battery)	At $>$ 105% load shut down after 10 sec.				
Bypass and Transfer Time	Standard static bypass, Completely Uninterrupted transfer between Mains - Battery / Battery - Mains				
Bypass Voltage Tolerance	176 - 261 VAC, 1 Phase + Neutral				
BATTERY					
Type and Placement	Maintenance Free, Dry Type				
Nominal Battery Voltage	240 VDC				
INDICATORS & CONTROL PANEL					
Type	LCD Panel				
Control Panel	Push Buttons (Open / Close, Audible Alarm Cancellation)				
Measuring and Alarms	% Load, Input Voltage Exist, Output Voltage Exist, Bypass Active, Battery Mode, Battery Capacity (%), Inverter in Service, Fault				
Indicators (LED)	Mains On, Mains Reverse, Battery Mode, Bypass On, Load / Battery Level, Overload, Fault				
PROTECTIONS					
Overload	Electronic Protection is available. In case of exceeding limits, the load is transferred to bypass without any interruption				
Short Circuit	Inverter shuts down automatically				
Over Temperature	If the internal Temperature is 90° C the load is transferred to bypass, When it returns $<$ 80° C, Inverter starts to work				
Modem / Network Protection	Modem / Network protection input against to Voltage Spikes				
AUDIBLE ALARMS					
Alarm Type and Alarms	Buzzer, it can be switched off by audible alarm button. Battery Mode, Battery Low, UPS fault, Overload, Short Circuit, Over Charge, Charger, Bypass, Inverter fault, Communication fault				
COMMUNICATION					
Interface and Protocol	Standart DB 9 (Female) Port, Intelligent RS232 (standard), SNMP(optional) and DB25 parallel port (for paralleling, optional)				
Software	Winpower-XP				
GENERAL					
Total Efficiency At 100% load	88%				
Noise Level	\leq 55 dBA		\leq 60 dBA		
Electro Magnetic Compatibility	EN 61000-4-2 (ESD), 4-3 (RS), 4-4 (EFT), 4-5 (surge), IEC 62040-2 (EMI)				
Operation Temperature and Humidity	0° C ~ 40° C, maximum 20-90% (Non Condence)				
Storage Temperature	-20° C ~ +70° C				
Protection Class	IP20				
Cooling Type	Forced cooling with variable speed fan according to load %				
Operation Altitude	\leq 1000 meter (from the sea level), at nominal load				
Dimensions (mm), W x H x D	260x717x570				
Weight W/O / W/Battery (kg)	35 / 84	38 / 93	38.5	55	55

* S Series represent extended backup models. L Series represent LCD models.

* Product specifications are subject to change without further notice



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