

CL100D SERIES

IGBT RECTIFIER DSP CONTROL

Cyclone CL 100D Series UPS

are single phase in/single phase out, IGBT rectifier, Intelligent Power Module technology based, high input power factor, low THDI and DSP controlled.



General Specifications

- Transformerless UPS topology
- IPM power module
- High input power factor > 0,98
- DSP controlled system
- Full digital control system
- Tower and rack type options
- PID control system
- Low input current value (THDI < 5%)
- High efficiency (up to 93%)
- Cold start function
- Static by-pass system
- Optional maintenance by-pass switch
- Optional split by-pass system
- VAT transfer (voltage adaptive transfer)
- Output overload and short circuit protection
- External REPO input
- 128 events (5000 alarms) memory
- Clock, calender and operating hourmeter
- Advanced automatic battery test
- Boost charge system
- Temperature compensated charge system
- RS232 port and dry contact relays
- Easy output voltage and frequency selection
- Optional SNMP adaptor
- 2 years warranty
- 10 years spare parts support
- Manufactured according to EC Directive; EN62040

Reliable Power

Technical Specifications

MODEL	CL106D	CL110D	CL115D
Power (kVA)	6	10	15
INPUT			
Voltage	220/230 VAC 1P + N + E		
Input voltage range	170 - 275 VAC		
Frequency	50Hz. / 60Hz.		
Frequency tolerance	40Hz. - 65Hz.		
Power factor	> 0.98 at full load		
THDI	< 5% at full load		
By-pass voltage / frequency	220/230 VAC , ± 10% / 50Hz. or 60Hz.		
By-pass frequency tolerance	Adjustable (for synchronization)		
Split by-pass connection	Optional		
OUTPUT			
Power (kW)	4,2	7	10,5
Voltage	220/230 VAC 1Phase + N, ± 1%		
Frequency	50Hz. / 60Hz.		
Frequency tolerance	Line synchronized: ± 1% / Free running: ± 0,1%		
Efficiency	Up to 92%		
Crest factor	3:1		
THD	< 3% (linear load)		
	< 5% (non-linear load)		
Overload protection	100% - 125% load 10 min, 126%-150% load 1 min, >150% load: by pass		
Connections	Hardwired + 2 x IEC sockets on the rear (Optional)		
BATTERIES			
Type	Sealed Lead Acid-Maintenance free		
Number of batteries	20x12V standard (16 to 24 selectable)		
Float charging voltage (adjustable)	270 VDC (20x12V for battery)		
End of discharge voltage (adjustable)	200 VDC (20x12V for battery)		
Battery housing	Internal	External Cabinet	
Battery ambient temperature	25°C		
Boost charge	Available		
Battery test	Automatic or Manual, available		
GENERAL			
Standards	EN 62040-1, EN62040-2		
Communication	RS232 standart-RS485 optional		
Software	Standard T-Mon UPS Management Software (3 clients + 1 server management)		
Alarm relays	3 standard (+2 programmable optional)		
Remote EPO input	Available as standard		
Operating temperature	0°C - 40°C		
Storage temperature	-10°C to 50°C		
Protection degree	IP20		
Relative humidity	90% max (noncondensed)		
Altitude	< 2000m. above sea level		
Acoustic noise	< 50 dBA		
Weight without batteries (kg)	23	39	40
Dimensions (mm) HxWxD	430x215x600	590x215x780	
	430x600x215 (19" rack version)	Not available	
OPTIONS			
Different input / output voltage	Please ask		
Transformer	Galvanic isolation transformer		
Adaptors	SNMP, RS485, Uzaktan izleme paneli, MODBUS (RS485 veya TCP/IP)		
Parallel operation	not available		

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