



6 - 10 - 15 kVA

## CL100D SERIES

UNINTERRUPTIBLE POWER SUPPLIES

1 phase in / 1 phase out

### IGBT RECTIFIER DSP CONTROL

*Cyclone CL100 DSP 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
- Manufactured according to EC Directive; EN62040
- 5 years spare parts support
- 2 years warranty





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## TECHNICAL SPECIFICATIONS

MODEL	CL106D	CL110D	CL115D
Power (kVA)	6	10	15
<b>INPUT</b>			
Voltage	220/230 VAC 1P + N + G		
Input voltage range	170 - 275 VAC		
Frequency	50Hz / 60Hz		
Frequency range	40Hz - 65Hz		
Power factor (at 100% load)	> 0,98		
THDI (at 100% load)	< 5%		
By-pass voltage / frequency	220/230 VAC $\pm$ 10% , 50Hz / 60Hz		
By-pass frequency tolerance	Adjustable (for synchronization)		
Split by-pass connection	Optional		
<b>OUTPUT</b>			
Power (kW)	4,2	7	10,5
Voltage	220/230 VAC 1P + N , $\pm$ 1%		
Frequency	50Hz / 60Hz		
Frequency tolerance	Line synchronized: $\pm$ 1% / Free running: $\pm$ 0,1%		
Efficiency	Up to 92%		
Crest factor	3:1		
Voltage 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)		
<b>BATTERIES</b>			
Type	Sealed Lead Acid-Maintenance free		
Number of batteries	20x12V standard (16 to 24 selectable)		
Float charging voltage	270 VDC (20x12V for battery) (adjustable)		
End of discharge voltage	200 VDC (20x12V for battery) (adjustable)		
Battery housing	Internal		External Cabinet
Battery ambient temperature	25°C		
Boost charge	Available		
Battery test	Automatic or Manual, available		
<b>GENERAL</b>			
Standards	EN62040-1, 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	< 95% (non-condensing)		
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
<b>OPTIONS</b>			
Different input / output voltage	Please ask		
Transformer	Galvanic isolation transformer		
Adaptors	SNMP, RS485, Remote panel, MODBUS (RS485 veya TCP/IP)		
Parallel operation	Upon request		