

CL100D

6-15kVA

Rack and Tower Design

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 (6kVA/10kVA)
- PID control system
- Low input current value (THDI < 5%)
- High efficiency
- Cold start function
- Static by-pass system
- 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
- 5 years spare parts support
- Manufactured according to EC Directive; EN62040

TECHNICAL SPECIFICATIONS

MODEL	CL106D	CL106DL	CL106DR	CL110D	CL110DR	CL115D
Power (kVA)	6			10		15
INPUT						
Voltage	220/230 VAC 1P + N + G					
Input voltage range	170 - 275 VAC					
Frequency	50Hz / 60Hz					
Frequency tolerance	40Hz - 65Hz					
Power factor (at 100% load)	> 0.98					
THDI (at 100% load)	< 5%					
By-pass voltage / frequency	220/230 VAC , ± 10% / 50Hz or 60Hz					
By-pass frequency tolerance	Adjustable (for synchronization)					
Maintenance by-pass connection	Please ask	Standard	Please ask	Standard	Please ask	Standard
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					
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					
BATTERIES						
Type	Sealed Lead Acid-Maintenance free					
Number of batteries	20x12V standard (16-24 selectable)					
Number of internal batteries	20x12V 4,5Ah/5Ah	20x12V 7Ah/9Ah	20x12V 4,5Ah/5Ah	20x12V 7Ah/9Ah	-	-
Float charging voltage (adjustable)	270 VDC (20x12V for battery)					
End of discharge voltage (adjustable)	200 VDC (20x12V for battery)					
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	95% max (non-condensing)					
Altitude	< 2000m above sea level					
Acoustic noise	< 50 dBA					
Weight without batteries (kg)	23	39	23	39	27	40
Dimensions (mm) HxWxD	430x215x600	590x215x780	430x600x215 (19" rack version)	590x215x780	430x600x215 (19" rack version)	590x215x780
OPTIONS						
Different input / output voltage	Please ask					
Heat Compensation System	Please ask					
Galvanic isolation transformer	Please ask					
Adaptors	SNMP, RS485, Remote monitoring panel, MODBUS (RS485 veya TCP/IP)					