

# AC/DC<sup>®</sup> UPS

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## UPSon Cyclone Series Uninterruptible Power Supplies True On-line 3 Phase Input - 3 Phase Output



10 - 80 kVA

\* IGBT Rectifier, Intelligent Power Module technology based, high input power factor.

- Transformerless UPS topology
- Low input current total harmonic distortion ( THD )
  - High input power factor
  - High efficiency up to 94%
  - Cold start function
- Static and maintenance by-pass switch
- Output short circuit and overload protection
  - External REPO switch input
- 128 events memory ( 128 events 3072 alarms )
  - Clock and calendar ( battery supported )
- Automatic battery test, remaining battery time indicator
  - Temperature compensated charge system
    - Modem setup for dialup modem
  - RS232 serial port and dry contact outputs
- Optional isolation transformer for input and output
  - Optional SNMP and MODBUS adaptors
  - Parallel operation up 4 devices
    - 2 years warranty
    - 10 years spare parts support
- Manufactured according to EC Directive; EN62040

**TÜV**  
AUSTRIA  
HELLAS  
EN ISO 9001:2008

## Your Positive Energy Source...

MODEL	CL310	CL315	CL320	CL330	CL340	CL360	CL380
Power	10	15	20	30	40	60	80
<b>INPUT</b>							
Power Factor	> 0,98						
Voltage	380 / 400 VAC 3 Phase, 4 Wire, $\pm 20\%$						
By-Pass Voltage	380 / 400 VAC 3 Phase, 4 Wire, $\pm 20\%$						
Input THDi	< 5%						
Input Frequency	50 / 60 Hz ; $\pm 5\%$						
Protection	Electronic input out of tolerance protection						
<b>OUTPUT</b>							
Power (kW)	8	12	16	24	32	48	64
Power Factor	0,8						
Voltage	380 / 400 VAC 3 Phase, 4 Wire, $\pm 1\%$						
Frequency	50 / 60 Hz						
Frequency Tolerance	$\pm 2\%$ ( line synchronized ) ; $\pm 0,2\%$ ( free running )						
Efficiency ( 100% load )	up to %94						
Crest Factor	3 : 1						
Overload Protection	100% - 125% load : 10 min. ; 125% - 150% load : 1 min. ; > 150% load : by pass						
Short Circuit Protection	Electronic short circuit protection						
Voltage out of tolerance protection	Electronic out of tolerance protection						
THD ( at 100 % linear load )	< %3						
<b>BATTERIES</b>							
Type	Sealed Lead Acid - Maintenance free						
Number of Batteries	2 x 30 ( $\pm 30$ ) : 60 batteries						
Float Charging Voltage	2 x 405 VDC						
End of Discharge Voltage	2 x 300 VDC						
Battery Cabinet	Internal					External cabinet	
Battery Ambient temp. °C	25 °C						
Battery Protection	Electronic battery out of tolerance protection						
Battery out of Tolerance Protection	Standard ( every 72 hours )						
<b>GENERAL</b>							
Regulations	EN62040-2						
User interface	2 X 16 Character LCD panel						
Communication	RS232 and Dry contacts						
Software	T-Mon UPS Management Software ( 3 clients, +1 server management standard )						
Overtemperature protection	Electronic overtemperature protection						
Temperature range	0 °C - 40 °C						
Protection degree	IP20						
Humidity ( non condensed )	90% max ( noncondensed )						
Altitude	< 1000 m above sea level						
Acoustic noise	< 57 dBA		< 62 dBA			< 64 dBA	
Weight ( kg. )	110	115	125	170	195	210	230
Dimensions ( mm ) ( W x L x H )	1040 x 425 x 805			1440 x 515 x 850			
<b>OPTIONS</b>							
Input / output voltage	208 / 208 VAC 3 Phase						
Transformer	Galvanic isolation transformer at the input & output						
Parallel Operation	N + 1 ( up to 4 units )						

\*\*\* AC/DC reserves the right to make any changes to data without prior notice.

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