

# C1 Series UPS<sub>30-120 kVA</sub> Three phase

- IGBT Rectifier
- Digital Signal Processing (DSP) Technology

## ✓ TECHNOLOGY

- IGBT rectifier
- High efficiency (up to 92%)
- High input PF ( $\geq 0.99$ )
- Low input current THD (<4%)
- Low output voltage THD (<2%)
- Short response time (<2ms)
- High input and output performance

## ✓ RELIABLE

- Parallel option up to 6 units
- Intelligent redundancy management (n, n+1 and n+x)
- Variable input low voltage depending on loading percentage (up to -36%)
- Programmable high overload capacity
- Short circuit protection
- Remote emergency power off
- Dual input(Optional)
- Optimum generator compatibility

## ✓ USER-FRIENDLY

- Reduced weight/volume/footprint
- Higher efficiency with eco-mode (up to 98%)
- Self-loading (regenerative mode)
- Adjustable input / output voltage & selectable frequency
- Extended battery life with intelligent battery management
- Automatic and manual battery test with adjustable period and duration
- User-friendly LCD interface
- Multi language options up to 10 languages
- 512 real time event log and easy download
- Multi communication options
- Remote monitoring and management software
- Programmable dry contacts
- Custom inputs
- Manual bypass
- Easy installation and maintenance
- 10 years spare part warranty
- 7/24 technical support and customer service

## ✓ STANDARDS

- EN 62040-1 (Safety)
- EN 62040-2 (EMC)
- CE, ISO 9001:2008, ISO 14001, GOST



DATA CENTERS



INDUSTRIAL PLACES



ELECTRO-MEDICAL DEVICES



EMERGENCY DEVICES (ALARMS)



TELECOM APPLICATIONS



LOCAL AREA NETWORKS



E-BUSINESS (SERVERS, FARMs, ISP/ASP/POP)



INDUSTRIAL PROCESSES



PERSONAL COMPUTERS



SMALL COMPUTERS NETWORK



SERVERS



CASH REGISTERS



## C1 SERIES UPS TECHNICAL SPECIFICATIONS

Power (kVA)	30	40	60	80	100	120	
<b>INPUT</b>	Voltage	380 / 400 / 415 Vac 3ph + N					
	Voltage Tolerances	± 15% (without downgrading), -36% (depending on load percentage)					
	Frequency	50 / 60 Hz					
	Frequency Tolerances	± 10%					
	Power Factor	≥ 0,99					
	THD <sub>v</sub>	< 4%					
<b>BYPASS</b>	Dual Input	Optional					
	Voltage	380 / 400 / 415 Vac 3ph + N					
	Voltage Tolerances	± 10% (adjustable)					
	Frequency	50 / 60 Hz					
	Frequency Tolerances	± %4 (adjustable up to ± 10%)					
	Maintenance Bypass	Standard					
<b>OUTPUT</b>	Voltage	380 / 400 / 415 Vac 3ph + N					
	Voltage Tolerances	± 1% (static load), dynamic load in accordance with VFI-SS-11					
	Frequency	50 / 60 Hz (selectable)					
	Frequency Tolerances	± 0.1% (self-synchronize), ± 4% (mains-synchronize, adjustable up to ± 5%)					
	Power Factor	0,8					
	THD <sub>v</sub>	≤ 2% (linear load), ≤ %5 (non-linear load)					
	Crest Factor	3:1					
<b>OVERLOAD CAPACITY</b>	≤ 110%	up to 60 min.					
	≤ 130%	up to 10 min.					
	≤ 150%	up to 1 min.					
<b>EFFICIENCY</b>	Online	up to 92%					
	Eko-mod	up to 98%					
<b>GENERAL</b>	Technology	True online-double conversion, IGBT rectifier					
	Control	DSP, SPWM					
	Paralleling Units	Up to 6 units					
	Communication	SNMP (optional), RS232, RS485, MODBUS					
	Remote Monitoring	SNMPView, Remote panel(Optional)					
	Dry Contacts	Programmable 3 dry contacts					
	Custom Inputs	Generator, Battery temperature sensor, Remote EPO, Remote Start/Stop					
<b>ENVIRONMENT</b>	Operating Temperature	from 0 °C up to +40 °C (from 20 °C to 25 °C for maximum battery life)					
	Relative Humidity	0% - 85% (without condensation)					
	Maximum Altitude	≤ 2000 m					
	Noise Level	< 65 dB (A)					
<b>UPS CABINET</b>	Dimensions (W x D x H) (mm)	480x895x1225				480x1000x1225	
	Weight (kg)	170	185	200	265	330	350
	Degree of Protection	IP20					
	Colour	RAL7012					
<b>BATTERY</b>	Battery Quantity	60 / 64					
	Internal Battery(maximum)	64 7-9 Ah	128	64 12 Ah	(not available)		
<b>STANDARDS</b>	Safety	EN 62040-1					
	EMC	EN 62040-2					
<b>UPS LIFETIME</b>	10 YEARS						