

EC Series UPS | three phase

30 - 120 kVA



“Three Level IGBT Rectifier & Inverter”
“ Digital Signal Processing (DSP) Technology”

NEW TECHNOLOGY

- Three Level IGBT Rectifier & Inverter
- High efficiency (up to 95.5%)
- High input PF (≥ 0.99)
- Low input current THD <3%
- Low output voltage THD <2%
- Short response time <2ms)
- High input and output performance

RELIABLE

- Batteries Redundant String
- 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
- Easy maintenance

STANDARDS

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

95.5%
Efficiency



TECHNICAL SPECIFICATIONS		EC Series - Evolution C Series															
Power (kVA) (kW)		30/27	40/36	60/54	80/62	100/90	120/108										
INPUT																	
Voltage		380 / 400 / 415 Vac 3ph + N															
Voltage tolerances		+15% / -36% (with downgrading)															
Frequency		50 / 60 Hz															
Frequency tolerances		± 10%															
Power factor		≥ 0.99															
THDi		<3%															
BYPASS																	
Dual input		Optional															
Voltage		380 / 400 / 415 Vac 3ph + N															
Voltage tolerances		± 20% (adjustable)															
Frequency		50 / 60 Hz															
Frequency tolerances		adjustable up to + 10%															
OUTPUT																	
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		0.9															
THD _v		≤ 2% (linear load), ≤ 4% (non-linear load)															
Crest factor		3:1															
OVERLOAD CAPACITY																	
≤ 110%		up to 60 min.															
≤ 130%		up to 10 min.															
≤ 150%		up to 1 min.															
EFFICIENCY																	
Online		up to 95.5%															
Eco-mode		up to 98%															
GENERAL																	
Technology		True online-double conversion, IGBT rectifier															
Control		DSP, SPWM															
Battery quantity of a group (12V)		60/64															
Communication		SNMP (optional), RS232, RS485, MODBUS															
Remote monitoring		SNMPView, Remote panel(Optional)															
Dry contacts		Programmable 3 dry contacts															
Custom inputs																	
ENVIRONMENT																	
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		1000 m (without downgrading), max. 2000 M															
Noise level		< 65 dB (A)															
Paralleling units		up to 6															
UPS CABINET																	
Dimensions (WxD x H) (mm)		480x895x1225			480x1000x1225												
Weight (kg)		170	185	200	265	330	350										
Degree of protection		IP20															
Colour		RAL7012															
Internal battery		64	128	64	(not available)												
				12 Ah													
BATTERY CABINET																	
Cabinet no.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Battery quantity (max.)		64		64		64	64	64	64	32	64	32	64	32	60	32	
Battery capacity (Ah)		7-9		12		18	26	30-33-35	38-40-45	55	65		60-75-80		90-100		
STANDARDS																	
Certificates		EN 62040-1 (Safety), EN 62040-2 (EMC)															

Kingston UPS reserves the right to make any changes to data without prior notice.

info@kingstonups.com