

**High reliability design**

Wide input voltage range 138-485Vac (Phase voltage 80-280Vac), no derating when input voltage  $\geq$  305Vac.

**Power saving**

High input power factor, it can be up to 0.99.  
Three level inverter topology, the efficiency can be up to 96%.

**Parallel redundancy function**

Support parallel expanded operation: maximum is 6 units.  
Support sharing batteries for the UPS in parallel.

**Flexible battery configuration**

Batteries number of each group can be selected from 30 pieces to 50 pieces.  
Large charging current can meet the requirement of long time backup.

**Strong load capacity**

Output power factor is 0.9, UPS can supply power to 100% unbalance load.  
High adaptability for load, it can connect full inductive load or capacitive load.

**Compatible with generator**

Power Walk In function, it can reduce the start current impact to system, and it can reduce the capacity of generator.

**LBS function**

LBS function can realize 2 independent UPS system work in synchronization, and it enhances the reliability of the system.

**Intelligent management**

Support RS485, RS232, SNMP, dry contact card.



## SPECIFICATION

MODEL		EC50KS3	EC60KS3	EC100KS3	EC120KS3	EC150KS3	EC160KS3	EC200KS3
Capacity		50kva/45kw	60kva/54kw	100kva/90kw	120kva/108kw	150kva/135kw	160kva/144kw	200kva/180kw
<b>INPUT</b>								
Nominal voltage		380/400/415Vac (3Ph+N+PE)						
Operating voltage range		138-485Vac for 40% load, 305-485Vac for full load						
Operating frequency range		40-70Hz						
Power factor		≥ 0.99						
Harmonic distortion (THDi)		≤ 3% (100% Linear load)						
Bypass voltage range		+25% ~ -45%						
Generator input		Support						
<b>OUTPUT</b>								
Output voltage		380/400/415Vac (3Ph + N + PE)						
Voltage regulation		± 1%						
Power factor		0.9						
Output frequency	Line Mode	Synchronize with input, when input frequency > ±10%, output (50/60 ±0.1)Hz						
	Bat. Mode	50/60Hz (±0.1%) Hz						
Crest factor		3:1						
Harmonic distortion (THDv)		≤ 1% Linear load; ≤ 4% Non linear load						
Transfer time	Utility to battery	0ms						
	Utility to bypass	0ms						
Output waveform		Pure sinewave						
Overload	INV mode	110%: 60min; 125%: 10min; 150%: 1min						
	Bypass mode	135% overload for long time; >1000% for 100ms						
<b>BATTERY</b>								
Battery voltage		384VDC (default) – 32pcs 12V batteries						
Charge current		Max. current 20A		Max. current 40A			Max. current 60A	
<b>SYSTEM</b>								
Efficiency		96%						
Display		LCD						
Alarm		Overload, Utility anormal, Fault, Battery low...						
Protection		Short circuit, overload, overtemperature, battery low, fan fault alarm						
Backfeed protection		Support						
Communications		USB, RS485, Parallel ports, Dry contact, Intelligent slot. SNMP card & relay card (optional)						
<b>ENVIRONMENTAL</b>								
Operating temperature		0-40°C						
Storage temperature		-25 – 55°C (No battery)						
Humidity range		0 - 95% (Non condensing)						
Altitude		<1500m, derating required when >1500m						
Noise level		<55dB	<58dB	<60dB	<62dB	<63dB	<64dB	
<b>PHYSICAL</b>								
Dimension D*W*H (mm)		828*250*868			850*450*1200			
Net weight (kg)		80	83	147	152	190	190	200
<b>STANDARDS</b>								
Safety		IEC/EN62040-1, IEC/EN60950-1						
EMC		IEC/EN62040-2, IEC61000-4-2, IEC61000-4-3, IEC61000-4-4, IEC61000-4-5, IEC61000-4-6, IEC61000-4-8						

\*\*\*Specifications are subject to change without notice