

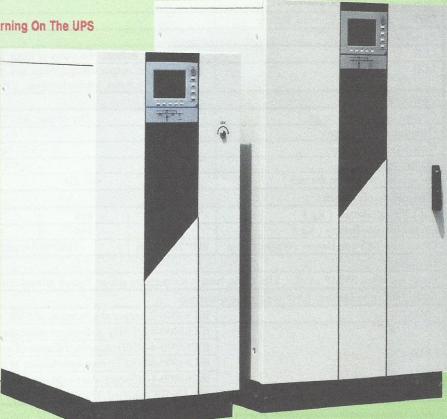
Uninterruptible Power Supply



The Best Solution For Power System

FEATURES:

- High Output Power Factor Can Reach 0.9 (Lagging)
- Input Power Factor is 1.0 With The Filter
- Wide Input Voltage Range, 380VA + 25%
- Wide Input Frequency Range From 45 65 Hz
- Communication Ports Selectable : Smart RS-232 and Intelligent Slot for AS-400, and SNMP Card
- Compatible With The Generator, Special design Power Walk in Function Reduces The in-rush Current When System Starts
- The Multi-Protections Such as AC Input Under/Over Voltage,
 Overload, Short-Circuit, Over-Current, Over Bus Voltage,
 Over-Temperature, Fan Failure, Auxiliary Power Failure,
 Battery Under Voltage Over-Charge
- Optional Extended Backup Time
- Cold Start Function
- Auto Sefl-testing System While Turning On The UPS
- Maintenance Bypass Switch and DSP Technology
- Two-Step Intelligent Charging
 Mode
- N + X Parellel Redundancy and Capacity Expansion
- Standard Compliance:
 IEC 61000-4-2 Immunity:
 Electro Static Discharger (ESD);
 IEC 61000-4-3 Immunity:
 Electromagnetic Fields;
 IEC 61000-4-4 Immunity:
 Transient Over Voltage (BURST);
 IEC 61000-4-5 Immunity:
 Current Surges (Surgel)
 IEC 62010-2 Class B Uninterruptible Power Suplly
 System (UPS):
 Performance Provisions and
 a Test Procedure > 25A



Protect your computers and sensitive equipments from any electrical disturbance.

Technical Specification

Model	SIN10KEP	SIN20KEP	SIN30KEP	SIN40KEP	SIN60KEP
Capacity (VA)	10 kVA	20 kVA	30 kVA	40 kVA	60 Kva
Power Rating (W)	9 kW	18 kW	27 kW	36 kW	54 kW
Input					
Voltage range	(380Vac / 400Vac / 415Vac) ±25% three-phase				
Frequency range	50 / 60 Hz ±5Hz auto-sensing				40
Power factor	> 0.8 (without filter)				
Rated current	15A 30A 45A 60A 90A				90A
Output					
Voltage range		380Vac	(or 400Vac / 415V	/ac)±1%	
Frequency	Auto-sensing the input frequency				
Frequency regulation (battery mode)	50 Hz / 60Hz ±0.05%				
Output waveform	Sine wave				
Power factor	0.9 (lagging)				
Distortion	Linear load <3%, Non-linear <5%				
Overload capacity	When	110% / 125% / 15	0% overload, main	tain 60min / 10mi	n / 1min
Crest factor			3:1(max)		
Efficiency	88%	89%	90%	90%	91%
Transfer time					
Line mode → Battery mode			0 ms		
Bypass					
Rated voltage			380 / 400 / 415 Va	c	
Bypass voltage range	Upper limit: +10%, +15%, +20% can be set				
Dypass voide taige	Lower limit: -10%, -20%, -30%, -40% can be set				
Rated frequency	50 / 60 Hz (auto-sensing)				
Bypass frequency range	$\pm 2\%$ ($\pm 10\%$, $\pm 20\%$ can be set)				
Transfer time to bypass	0 ms / 1 ms				
Overload capacity	15 ti	mes the rated curre	ent (10ms), 5 time	s the rated current	(5s)
Battery					
Battery voltage (VDC)			384		
Backup Time (min) External Battery	10				
•			10		
Panel display					
LED			of input, inverter, by		
LCD			quency, power, pov age, UPS status, hi		
Environment	J Games, S	aucus, roud percent	uge, er s succes, in	story record, set p	artamotors .
Communication interface		Dry conta	ct RS232 RS485	SNMP slot	
Operating temperature	Dry contact RS232, RS485, SNMP slot $0 \sim 40$ °C				
Humidity	$0 \sim 40^{\circ}$ C $0 \sim 95\%$ Non-condensing				
Storage temperature	-25 °C ~ 55 °C				
Noise (1m away from the unit)	<65 dB <68 dB				
Physical characteristics					
Net UPS w/o Battery (Kg)	217	273	316	330	485
Gross UPS w/o Battery (Kg)	272	328	371	385	553
Dimension UPS w/o Battery (WxDxH) mm	212	1	00*1220	363	800*740*1600
		370 8	00 1220		800 740 100
Options			10 10 10 10		1
Harmonic filter, SNMP adapter, LBS cable, b		sensor, battery gr	ound rault detection	n, oypass current s	maring inductor.
Satisfy the international EMC safety requi			ATIVA 175		
EMI			of EMC on UPS (>16A)	
		ESD): Anti-electro			
EMS		RS): Anti-interfere			
			ence of power puls	se	
		Surge): Anti-lightn			
Industry standard	CE, EN/IEC 620	040-2, EN/IEC 620)40-1-1		

Specifications are subject to change without prior notice

Technical Specification

Model	SIN80KEP	SIN100KEP	SIN120KEP	SIN160KEP	SIN200KE	
Capacity (VA)	80 kVA	100 kVA	120 kVA	160 kVA	200 kVA	
Power Rating (W)	72 kW	90 kW	108 kW	144 kW	180 kW	
Input						
Voltage range	(380Vac / 400Vac / 415Vac) ±25% three-phase					
Frequency range	50 / 60 Hz ±5Hz auto-sensing					
Power factor	> 0.8 (without filter)					
Rated current	120A	150A	160A	240A	300A	
Output						
Voltage range		380Vac (or 400Vac / 415V	(ac.) +1%		
Frequency	Auto-sensing the input frequency					
Frequency regulation (battery mode)	50 Hz / 60Hz ±0.05%					
Output waveform	Sine wave					
Power factor	0.9 (lag)					
Distortion		Linear I	load <3%, Non-line	ear <5%		
Overload capacity	When 1		% overload, main		/ Imin	
Crest factor			3:1 (max)		, , , , , , , , , , , , , , , , , , , ,	
Efficiency	91%	91%	91.5%	91.5%	92%	
Transfer time						
Line mode → Battery mode			0 ms			
Bypass			Ollis			
Rated voltage			200 / 400 / 415 XI			
Bypass voltage range	380 / 400 / 415 Vac					
Dypass voltage range	Upper limit: +10%, +15%, +20% can be set Lower limit: -10%, -20%, -30%, -40% can be set					
Rated frequency	50 / 60 Hz (auto-sensing)					
Bypass frequency range	$\pm 2\%$ ($\pm 10\%$, $\pm 20\%$ can be set)					
Transfer time to bypass	0 ms / 1 ms					
Overload capacity	15 times the rated current (10ms), 5 times the rated current (5s)					
Battery		THE LAW FLECT CHIFF	at (Toms), 5 time	s the rated current	(33)	
Battery voltage (VDC)	I		384			
Back up Time (min) External Battery			10			
Panel display			10			
LED						
LCD	lno	licate the status of	finput, inverter, by	pass, battery, outp	ut	
LCD	Display input/ output voltage, frequency, power, power factor, battery voltage, current battery status, load percentage, UPS status, history record, set parameters					
Environment	l battery st	atus, toati percenta	ige, OPS status, m	story record, set pa	irameters	
	T		- BG222 BG405			
Communication interface	Dry contact RS232, RS485, SNMP slot					
Operating temperature	$0 \sim 40^{\circ} \text{C}$					
Humidity	0 ~ 95% Non-condensing					
	-25 °C ~ 55 °C <68 dB <72 dB					
		.co 10			dB	
Noise (1m away from the unit)		<68 dB		<12		
Noise (1m away from the unit) Physical characteristics						
Noise (1m away from the unit) Physical characteristics Net UPS w/o Battery (Kg)	525	800	903	1219	1425	
Noise (1m away from the unit) Physical characteristics Net UPS w/o Battery (Kg) Gross UPS w/o Battery (Kg)	595	800 890	993	1219 1349	1555	
Noise (1m away from the unit) Physical characteristics Net UPS w/o Battery (Kg) Gross UPS w/o Battery (Kg) Dimension UPS w/o Battery (WxDxH) mm		800	993	1219	1555	
Noise (1m away from the unit) Physical characteristics Net UPS w/o Battery (Kg) Gross UPS w/o Battery (Kg) Dimension UPS w/o Battery (WxDxH) mm	595	800 890	993	1219 1349	1555	
Noise (1m away from the unit) Physical characteristics Net UPS w/o Battery (Kg) Gross UPS w/o Battery (Kg) Dimension UPS w/o Battery (WxDxH) mm Options	595 880*760*1600	800 890 1160*80	993 05*1600	1219 1349 1400*94	1555 45*1900	
Noise (1m away from the unit) Physical characteristics Net UPS w/o Battery (Kg) Gross UPS w/o Battery (Kg) Dimension UPS w/o Battery (WxDxH) mm Options Harmonic filter, SNMP adapter, LBS cable, b	595 880*760*1600 attery temperature	800 890 1160*80	993 05*1600	1219 1349 1400*94	1555 45*1900	
Noise (1m away from the unit) Physical characteristics Net UPS w/o Battery (Kg) Gross UPS w/o Battery (Kg) Dimension UPS w/o Battery (WxDxH) mm Options Harmonic filter, SNMP adapter, LBS cable, b Satisfy the international EMC safety requi	595 880*760*1600 attery temperature s	800 890 1160*80 sensor, battery gro	993 05*1600 und fault detection	1219 1349 1400*94 a, bypass current sh	1555 45*1900	
Noise (1m away from the unit) Physical characteristics Net UPS w/o Battery (Kg) Gross UPS w/o Battery (Kg) Dimension UPS w/o Battery (WxDxH) mm Options Harmonic filter, SNMP adapter, LBS cable, b Satisfy the international EMC safety requi	595 880*760*1600 attery temperature sements IEC62040-2: outp	800 890 1160*80 sensor, battery gro	993 05*1600 und fault detection of EMC on UPS (>	1219 1349 1400*94 a, bypass current sh	1555 45*1900	
Noise (1m away from the unit) Physical characteristics Net UPS w/o Battery (Kg) Gross UPS w/o Battery (Kg) Dimension UPS w/o Battery (WxDxH) mm Options Harmonic filter, SNMP adapter, LBS cable, b Satisfy the international EMC safety requi	595 880*760*1600 attery temperature : rements IEC62040-2: outr IEC61000-4-2(ES	800 890 1160*80 sensor, battery gro out requirements of SD): Anti-electrost	993 05*1600 und fault detection of EMC on UPS (>	1219 1349 1400*94 a, bypass current sh	1555 45*1900	
Storage temperature Noise (1m away from the unit) Physical characteristics Net UPS w/o Battery (Kg) Gross UPS w/o Battery (Kg) Dimension UPS w/o Battery (WxDxH) mm Options Harmonic filter, SNMP adapter, LBS cable, b Satisfy the international EMC safety requi EMI	595 880*760*1600 attery temperature strements IEC62040-2: output IEC61000-4-2(ESIEC61000-4-3(RSIEC610000-4-3(RSIEC61000-4-3(RSIEC61000-4-3(RSIEC610000-4-3(RSIEC61000-4-3(RSIEC610000-4-3(RSIEC61000-4-3(RSIEC61000-4-3(RSIEC61000-4-3(800 890 1160*80 sensor, battery gro out requirements of 5D): Anti-electrost S): Anti-interferen	993 05*1600 und fault detection f EMC on UPS (> tatic discharge ce of radiation	1219 1349 1400*94 a, bypass current sh	1555 45*1900	
Noise (1m away from the unit) Physical characteristics Net UPS w/o Battery (Kg) Gross UPS w/o Battery (Kg) Dimension UPS w/o Battery (WxDxH) mm Options Harmonic filter, SNMP adapter, LBS cable, b Satisfy the international EMC safety requi	595 880*760*1600 attery temperature strements IEC62040-2: output IEC61000-4-2(ESIEC61000-4-3(RSIEC610000-4-3(RSIEC61000-4-3(RSIEC61000-4-3(RSIEC610000-4-3(RSIEC61000-4-3(RSIEC610000-4-3(RSIEC61000-4-3(RSIEC61000-4-3(RSIEC61000-4-3(800 890 1160*80 sensor, battery gro out requirements o 5D): Anti-electrost S): Anti-interferen T): Anti-interfere	993 05*1600 und fault detection f EMC on UPS (> tatic discharge ce of radiation once of power pulse)	1219 1349 1400*94 a, bypass current sh	1555 45*1900	

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CONTACT	PERSON:	