

Uninterruptible Power Supply



- High Output Power Factor
- High Input Power Factor
- Wide Input Voltage Range
- Wide Input Frequency Range
- 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 Self-testing System While Turning On The UPS
- Maintenance Bypass Switch and DSP Technology
- Two-Step Intelligent Charging Mode
- Common Battery Function (Optional)

- N + X Parallel Redundancy and Capacity Expansion (Parallel Board Included)
- Standard Compliance :
 - IEC/EN62040-1
 - IEC/EN60950-1
 - IEC/EN62040-2
 - IEC 61000-4-2
 - IEC 61000-4-3
 - IEC 61000-4-4
 - IEC 61000-4-5
 - IEC 61000-4-6
 - IEC 61000-4-8

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Technical Specification

Model	SIN10KEP	SIN20KEP	SIN30KEP	SIN40KEP	SIN60KEP	SIN80KEP
Capacity (VA)	10 kVA	20 kVA	30 kVA	40 kVA	60 kVA	80 kVA
Power Rating (W)	9 kW	18 kW	27 kW	36 kW	54 kW	72 kW
Input						
Operating voltage range			380/400/415Vac (-25% / +20%), (3Ph+N+PE)			
Operating frequency range			50 / 60 Hz ± 5Hz			
Power factor			≥ 0.98 (with filter)			
Output						
Output Voltage			380/400/415Vac (±1%)			
Output frequency			50/60Hz (±0.05%)			
Output waveform			Sine wave			
Harmonic distortion (THD)			<3% (linear load)			
Crest factor			3 : 1 (max)			
Efficiency	>89%	>90%	>91%			>92%
Bypass						
Rated voltage			380/400/415Vac			
Rated frequency			50/60Hz			
Voltage protection range			Upper limit: +20% (+10%, +15%, +20% adjustable) Lower limit: -40% (-10%, -20%, -30%, -40% adjustable)			
Frequency protection range			±10% (±2.5%, ±5%, ±10%, ±20% adjustable)			
Battery						
Battery voltage			384Vdc			
Backup time			10 minutes at nominal load			
Battery Configuration			External			
System Features						
Transfer time			0ms (Line mode ↔ Battery mode)			
Overload			110%/60min, 125%/10min, 150%/1min			
LED			Indicate the status of input, inverter, bypass, battery, output			
LCD			I/O voltage, frequency, power, power factor, battery voltage, current, battery status, load percentage, UPS status, history record, set parameters			
Communication interface			Dry contact, RS232, RS485, SNMP card (Optional)			
Optional			Harmonic filter, SNMP adapter, LBS cables, battery temperature sensor, Bypass current-sharing inductor			
Environmental						
Operating temperature			0 ~ 40 °C			
Storage temperature			-25 °C ~ 55 °C			
Humidity range			0~95% (non-condensing)			
Altitude			<1500m			
Noise level		<60 dB			<65 dB	
Physical UPS without Battery						
Dimension (DxWxH) mm			800 x 570 x 1195			760 x 880 x 1600
Net Weight (Kg)	217	273	316	330	483	525

Model	SIN100KEP	SIN120KEP	SIN160KEP	SIN200KEP	SIN300KEP	SIN400KEP
Capacity (VA)	100 kVA	120 kVA	160 kVA	200 kVA	300 kVA	400 kVA
Power Rating (W)	90 kW	108 kW	144 kW	180 kW	270 kW	360 kW
Input						
Operating voltage range			380/400/415Vac (-25% / +20%), (3Ph+N+PE)			
Operating frequency range			50 / 60 Hz ± 5Hz			
Power factor			≥ 0.98 (with filter)			
Output						
Output Voltage			380/400/415Vac (±1%)			
Output frequency			50/60Hz (±0.05%)			
Output waveform			Sine wave			
Harmonic distortion (THD)			<2% (linear load)			
Crest factor			3 : 1 (max)			
Efficiency	>92%		>92.5%			>93%
Bypass						
Rated voltage			380/400/415Vac			
Rated frequency			50/60Hz			
Voltage protection range			Upper limit: +20% (+10%, +15%, +20% adjustable) Lower limit: -40% (-10%, -20%, -30%, -40% adjustable)			
Frequency protection range			±10% (±2.5%, ±5%, ±10%, ±20% adjustable)			
Battery						
Battery voltage			384Vdc			
Backup time			10 minutes at nominal load			
Battery Configuration			External			
System Features						
Transfer time			0ms (Line mode ↔ Battery mode)			
Overload			110%/60min, 125%/10min, 150%/1min			
LED			Indicate the status of input, inverter, bypass, battery, output			
LCD			I/O voltage, frequency, power, power factor, battery voltage, current, battery status, load percentage, UPS status, history record, set parameters			
Communication interface			Dry contact, RS232, RS485, SNMP card (Optional)			
Optional			Harmonic filter, SNMP adapter, LBS cables, battery temperature sensor, Bypass current-sharing inductor			
Environmental						
Operating temperature			0 ~ 40 °C			
Storage temperature			-25 °C ~ 55 °C			
Humidity range			0~95% (non-condensing)			
Altitude			<1500m			
Noise level		<65 dB			<70 dB	
Physical UPS without Battery						
Dimension (DxWxH) mm		805 x 1160 x 1600	945 x 1400 x 1900	1040 x 1640 x 1900		
Net Weight (Kg)	800	903	1219	1425	1780	2050

Specifications are subject to change without prior notice