



## Uninterruptible Power Supply



- High Output Power Factor Can Reach 0.9 (Lagging)
- Input Power Factor is 1.0 With The Filter
- Wide Input Voltage Range, 380VA  $\pm$  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 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 Parellel Redundancy and Capacity Expansion (Parallel Board Included)
- 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 (Surge)
  - IEC 62010-2 Class B - Uninterruptible Power Suplly System (UPS): Performance Provisions and a Test Procedure > 25A



Model	SIN10KEP	SIN20KEP	SIN30KEP	SIN40KEP	SIN60KEP
Capacity ( VA )	10 kVA	20 kVA	30 kVA	40 kVA	60 kvVA
Power Rating ( W )	9 kW	18 kW	27 kW	36 kW	54 kW
<b>Input</b>					
Operating voltage range	380/400/415Vac (380-25%, 415+20%), (3Ph+N+PE)				
Operating frequency range	50 / 60 Hz ±5Hz				
Power factor	> 0.97 (with filter)				
Rated current	15A	30A	45A	60A	90A
<b>Output</b>					
Output voltage	380/400/415Vac (±1%)				
Output frequency	50/60Hz (±0.05%)				
Frequency regulation ( battery mode )	50 Hz / 60Hz ±0.05%				
Output waveform	Sine wave				
Power factor	0.9 ( lagging )				
Harmonic distortion (THD)	<3% (linear load)				
Overload capacity	When 110% / 125% / 150% overload, maintain 60min / 10min / 1min				
Crest factor	3 : 1 ( max )				
Efficiency	>89%	>90%	>91%	>91%	>92%
<b>Bypass</b>					
Rated voltage	380/400/415Vac				
Bypass voltage range	Upper limit: +10%, +15%, +20% can be set Lower limit: -10%, -20%, -30%, -40% can be set				
Rated frequency	50/60Hz				
Bypass frequency range	±2% (±10%, ±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 )				
<b>Battery</b>					
Battery voltage	384Vdc				
Backup Time (min) External Battery	10				
<b>System features</b>					
Transfer time	0ms (Line mode ↔ Battery mode)				
Overload	110%/60min, 125%/10min, 150%/1min				
Communication interface	LCD display, LED indication, Dry contact, RS232, RS485, SNMP card (optional)				
Optional	Harmonic filter, SNMP adapter, LBS cables, battery temperature sensor, Bypass current-sharing inductor				
<b>Panel display</b>					
LED	Indicate the status of input, inverter, bypass, battery, output				
LCD	Display input/ output voltage, frequency, power, power factor, battery voltage, current, battery status, load percentage, UPS status, history record, set parameters				
<b>Environmental</b>					
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	
<b>Physical</b>					
Net weight ( Kg )	217	273	316	330	483
Gross weight ( Kg )	272	328	371	385	553
Dimension W x D x H (mm)	570x800x1195				880x760x1600
<b>Standards</b>					
Safety	IEC/EN62040-1 IEC/EN60950-1				
EMC	IEC/EN62040-2; IEC61000-4-2; IEC61000-4-3; IEC601000-4-4; IEC61000-4-5; IEC61000-4-6; IEC61000-4-8				

Specifications are subject to change without prior notice

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Model	SIN80KEP	SIN100KEP	SIN120KEP	SIN160KEP	SIN200KEP
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
<b>Input</b>					
Operating voltage range	380/400/415Vac (380-25%, 415+20%), (3Ph+N+PE)				
Operating frequency range	50 / 60 Hz ±5Hz				
Power factor	> 0.97 (with filter)				
Rated current	120A	150A	160A	240A	300A
<b>Output</b>					
Output voltage	380/400/415Vac (±1%)				
Output frequency	50/60Hz (±0.05%)				
Frequency regulation ( battery mode )	50 Hz / 60Hz ±0.05%				
Output waveform	Sine wave				
Power factor	0.9 ( lag )				
Harmonic distortion (THD)	<3%	<2% (linear load)			
Overload capacity	When 110% / 125% / 150% overload, maintain 60min / 10min / 1min				
Crest factor	3 : 1 ( max )				
Efficiency	>92%				>92.5%
<b>Bypass</b>					
Rated voltage	380/400/415Vac				
Bypass voltage range	Upper limit: +10%, +15%, +20% can be set Lower limit: -10%, -20%, -30%, -40% can be set				
Rated frequency	50/60Hz				
Bypass frequency range	±2% (±10%, ±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 )				
<b>Battery</b>					
Battery voltage	384Vdc				
Back up Time (min) External Battery	10				
<b>System features</b>					
Transfer time	0ms (Line mode ↔ Battery mode)				
Overload	110%/60min, 125%/10min, 150%/1min				
Communication interface	LCD display, LED indication, Dry contact, RS232, RS485, SNMP card (optional)				
Optional	Harmonic filter, SNMP adapter, LBS cables, battery temperature sensor, Bypass current-sharing inductor				
<b>Panel display</b>					
LED	Indicate the status of input, inverter, bypass, battery, output				
LCD	Display input/ output voltage, frequency, power, power factor, battery voltage, current, battery status, load percentage, UPS status, history record, set parameters				
<b>Environmental</b>					
Operating temperature	0 ~ 40 °C				
Storage temperature	-25 °C ~ 55 °C				
Humidity range	0~95% (non-condensing)				
Altitude	<1500m				
Noise level	<65 dB				
<b>Physical</b>					
Net weight ( Kg )	525	800	903	1219	1425
Gross weight ( Kg )	595	890	993	1349	1555
Dimension W x D x H (mm)	880x760x1600	1160x805x1600		1400x945x1900	
<b>Standards</b>					
Safety	IEC/EN62040-1 IEC/EN60950-1				
EMC	IEC/EN62040-2; IEC61000-4-2; IEC61000-4-3; IEC601000-4-4; IEC61000-4-5; IEC61000-4-6; IEC61000-4-8				

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