



ICA[®]

The Best *Solution* for Power System



Uninterruptible Power Supply



- Industrial Transformer Based UPS
- Full Bridge IGBT Inverter with Isolated Transformer
- 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

Protect your computer and sensitive equipments from any electrical disturbance.

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%), (3Ph+N+PE)					
Output frequency	50/60Hz (±0.05%)					
Output waveform	Sine wave					
Harmonic distortion (THD)	<3% (linear load)					
Crest factor	3 : 1 (max)					
Efficiency	>88%	>89%	>90%		>91%	
Bypass						
Rated voltage	380/400/415Vac (3Ph+N+PE)					
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	6 ~ 10 minutes					
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%), (3Ph+N+PE)					
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 (3Ph+N+PE)					
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	6 ~ 10 minutes					
Battery Configuration	External					
System Features						
Transfer time	0ms (Line mode ↔ Battery mode)					
Overload	110%/60min, 125%/10min, 150%/1min to Bypass					
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	775 x 890 x 1600		800 x 1200 x 1600		1000 x 1400 x 1900	
Net Weight (Kg)	625	685	1219	1425	1560	1640

SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE

Contact Person

