

1. Application

Back-up UPS is a technically-modified new product of the company on the basis of the previous UPS-500VA one and has multifunction as automatic voltage regulation of local electricity, synchronous switches for users load, protections of over-voltage, overvoltage, overcurrent, over-charge of batterie, feed and so on.



Product		On Line UPS parallel Redundancy (6~10kVA 1Ph/1Ph)			
Type		G6KN	G10KN	G6KNS	G10KNS
Rated power	VA/W	6kVA/4.2kW	10kVA/4.2kW	6kVA/4.2kW	10kVA/4.2kW
Input	Nominal voltage	220VAC (or 230/240VAC)			
	Voltage range	176~276VAC			
	Frequency range	46~54Hz			
	Phase	Single Phase			
	Power factor	0.98			
	Connection	Hardwired			
Output	Voltage	220VAC±1% (or 230/240VAC±1%)			
	Frequency	50Hz±1%(Battery mode)			
	Wave form	Sine wave			
	Power factor	0.7			
	Voltage distortion	2% under liner load			
	Overload capability	105%~130% for 10min,≥130% for 1s.			
	Current crest ratio	3:1 max			
	Connections	Hardwired			
	Battery	Type	Sealed,Maintenance free, Lead-Acid		
Quantity		20 pieces		Depends on the requested back-up time	
Nominal voltage		240 VDC			
Back-up time(full load)		7min	5min	Depends on the capacity of the external battery bank	
Recharge time		8 hrs to 90% of capacity after full load discharge		Depends on the capacity of the external battery bank	
Connection		External Battery Socket			
Transfer time		0 ms			
Maintenance bypass switch		Yes			
LED indicators	Status	Load level/Battery level.Utility power,Inverter,Bypass, Overload,Fault			
Audible alarm	Bypass	Alarm beeps every two minutes			
	Battery discharge	Alarm beeps every four seconds, Every second if battery low			
	Overload	Alarm beeps two for every second			
	Fault	Alarm beeps continuously			
Acoustic Noise	At 1 meter distance	≤55 dB			
Communication	DB-9 port	RS232 serial interface			
	Intelligent slot	Options: SNMP Card, AS400 Card or Winpower CMC(USB-Port)			
Parallel Port		Up to three units in parallel for power redundancy and load sharing			
Environmental	Operating temperature	0~40℃			
	Operating humidity	20~90% non-condensing			
Weight	Net(kg)	84	93	35	38
Dismensions W×L×H (mm)		260×570×717			



Product		High Frequency On Line UPS(1kVA~3kVA)						
Type		G1K	G2K	G3K	G1KS	G2KS	G3KS	
Rated power	VA/W	1kVA/0.7kW	2kVA/1.4kW	3kVA/2.1kW	1kVA/0.7kW	2kVA/1.4kW	3kVA/2.1kW	
Input	Nominal voltage	220VAC (or 230/240 VAC)						
	Voltage range	118~300VAC						
	Frequency range	46~54Hz(default),user adjustable within 40-60Hz						
	Power factor	>0.97						
	Connection	IEC320-10A inlet		IEC320-16A inlet	IEC320-10A inlet		IEC320-16A inlet	
Output	Voltage	220VAC±1%(or 230/240VAC±1%)						
	Frequency	46~54Hz or 50Hz±0.1Hz(Line mode)50Hz±0.1Hz(Battery mode)(or 60Hz±0.1Hz)						
	Wave form	Sine Wave						
	Distortion	3%	4%			3%	4%	
	Overload capability	110%~150% for 30 sec.,≥150% for 200 ms						
	Current crest ratio	3:1						
	Connections	IEC320-4	IEC320-6	IEC320-3&terminal block		IEC320-4	IEC320-6	IEC320-3&terminal block
	Battery	Type	Sealed,Maintenance free,Lead-acid					
Nominal DC voltage					36VDC	96VDC		
Quantity		3 pieces	8 pieces			Depends on the requested back-up time		
Back-up time(full load)		5min	9min	5min		Depends on the capacity of the external battery bank		
Recharge time		5hrs to 90% of capacity afterfull load discharge			Depends on the capacity of theexternal battery bank			
Bypass	Automatic transfer	On overload and UPS failure						
	Before UPS power-on	Default"NO",user adjustable to"YES"						
	Voltage range	80~264VAC(Default),user adjustable within 80~286VAC						
Transfer time		0ms;less than 4 ms from inverter to bypass and vice versa						
LED indicators	Status	Load level/Battery level, Battery, Utility power,Inverter,Bypass,Overload,Fault						
Audible alarm		Bypass, On battery mode,Battery low ,Overload,Fault						
Acoustic Noise	At 1meter distance	45 dB	50 dB			45 dB	50 dB	
Commu- nications	DB-9 port	RS-232 serial interface						
	Intelligent slot	Options:SMNP Card,AS400 Card of Winpower CMC/(USB Port)						
Network surge protection		RJ45 I/O port available for network or Fax/Modem						
Environmen-tal	Operating temperature	0~40°C						
	Operating humidity	20~90% non-condensing						
Weight	Net(Kg)	13	31.5	32	7	13.5	14	
Dimensions	W x L x H(mm)	145 x 400x 220	192 x 460x348	192 x 460x348	145 x 400x220	192 x 460x348	192 x 460x 348	



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2. Specification

Input voltage/Output voltage	220V±20%/220V±10%
Frequency	50Hz/60Hz
Efficiently	more than 80%
Ambient temprature	-10°C~+40°C
Charger time	8 hours/time
Inverter supply time	(Rating power 80%)3-4mins(rating power 50%)8-10mins
Inverter Charge time	<10ms
Output waveform	Square wave
Yawp	<50dB

3.Outline & Packing

Type	Time	Outline(cm)			Weight(kg)
		L	W	H	
UPS-350VA	3-7min	26	10	14	4.3
UPS-500VA	5-15min	36	11	16	7.2
UPS-1000VA	5-15min	36	15	23	11.5



Product		On Line UPS Parallel Redundancy (10~20kVA 3Ph/1Ph)		
Type		3G10KNS	3G15KNS	3G20KNS
Rated power	VA/W	10kVA/7kW	15kVA/10.5kW	20kVA/14kW
Input	Nominal voltage	380VAC		
	Voltage range	304~478VAC		
	Frequency range	46~54Hz		
	Phase	Three Pahse (4 Wires+Ground)		
	Power factor	0.95		
Output	Connection	Hardwired		
	Voltage	220VAC ± 1%, Single phase		
	Frequency	50Hz ± 0.1%(Battery mode)		
	Wave form	Sine wave		
	Power factor	0.7		
	Voltage distortion	≤ 2% under liner load		
	Overload capability	105%~130% for 10min,≥ 130% for 1s.		
	Current crest ratio	3:1 max		
	Connections	Hardwired		
Battery	Type	Sealed,Maintenance free, Lead-Acid		
	Quantity	Depends on the requested back-up time		
	Nominal voltage	240 VDC		
	Back-up time(full load)	Depends on the capacity of the external battery bank		
	Recharge time	Depends on the capacity of the external battery bank		
	Connection	External battery socket	Hardwired	
Transfer time		0 ms		
Maintenance bypass switch		Yes		
LED indicators	Status	Load level/Battery level, Battery,Utility power,Inverter, Bypass,Overload,Fault		
Audible alarm	Bypass	Alarm beeps every two minutes		
	Battery discharge Overload	Alarm beeps every four seconds, Every second if battery low Alarm beeps two for every second		
	Fault	Alarm beeps continuously		
Acoustic noise	At 1 meter distance	≤ 55 dB	≤ 60 dB	
Communication	DB-9 port	RS232 serial interface		
	Intelligent slot	Options: SNMP Card, AS400 Card or Winpower CMC/(USB-Port)		
Parallel port		Up to three units in parallel for power redundancy and load sharing		
Environmental	Operating temperature	0~40 °C		
	Operating humidity	20~90% non-condensing		
Weight	Net(kg)	38.5	55	
Dismensions	W × L × H (mm)	260 × 570 × 717		