THREE PHASE UPS



Genius

10-800 KVA

Features

Online double conversion

 Online Double Conversion design helps to output a pure sine wave ,which is immune from the UPS input, so that the load can run steadily.

 UPS transfers among different working mode without output interruption, thereby powering the load uninterruptedly.

Full DSP control

 Full DSP Control avoids the risks caused by analog devices failure and makes the control system more stable and reliable.

High power factor

· The output power factor up to 0.9 better matches the load.

 The input power factor 0.98 with filter helps to improve the efficiency, reduce the harmonic pollution to the Grid and lower the UPS running and

Wide input adaptability

The range of AC input voltage is (380Va/ 400Vac/415Vac) (-25%/+20%), minimizing transfer to battery mode, thereby greatly prolonging the battery life.

 Wide input frequency ranging from 45Hz to 65Hz, ensures stability of UPS while generator connected.

Optimized battery management

 Intelligent battery management system and advanced battery auto float/boost charge technology, reduces the frequency of battery maintenance, greatly improves the battery efficiency and extends battery life.

 Battery discharge time prediction: the system will display the backup time of battery calculated by discharge current and voltage.



360-480VDC

flexible

tested at regular intervals

N+X parallel redundancy





I BS synchronization





· Flexible battery configuration ranging from UPS systems (s

 Synchronize the output of the two independent UPS systems (single unit or parallel) even when the two systems are operating on different modes (bypass/inverter) or on battery.

Multi-protection

 Self-diagnosis function will take place before start-up for safety.

· Multi-protection: AC input under/over voltage, overload, short-circuit, over-current, over bus voltage, over-temperature, fan falure, auxiliary power falure, battery under voltage, battery over-charge and so on.

Output Isolation transformer

EPO function

 \cdot A concave red EPO button with transparent cover is embodied in the LCD control panel for emergency power off.

User-friendly network management

 Chinese/English LCD and LED mimic diagram: real time operation parameters and status
 Log history event up tp 516 events

 RS232 & RS485 communication ports: for local monitor with corresponding software, and MODRUS protocol is optional.

· SNMP adapter (optional): for remote monitor through network

Dry contacts for additional monitoring;
 a) UPS on Inverter

b) Mains input failure

c) remote EPO

d) Battery low voltage alarm

e) UPS fault

g)UPS on battery

h) UPS on bypass Note: d)--h) optional

slave may be exchanged. Strong overload capability

doing proper settings.

· 110%/125%/150% overload for 60min/ 10min/1min.

· Battery self-test: battery is automatically

· N+X parallel redundant design, up to 6 units

available, makes the configuration more

Any unit in parallel system fails, the faulty one

will automatically cut off the output, and the

· It is easy to configure the parallel system

just by connecting the parallel cables and

· Non-fixed Master-Slave relationship: Among

everal UPS in parallel, the unit startup first is

Master UPS, the others are Slave. The master and

load will be powered by the remained units.

Power walk in

 Specially designed power walk in function, in which rectifier of each unit in parallel system will be turned on in sequence at intervals to avoid the sudden load on the generator, thereby reducing the cost of the generator required.

Generator mode

 Set the maximum output power of the generator when a smaller one than needed is employed to extend the battery duration time.
 In this case, the load is supplied by both the generator and battery.

THREE PHASE UPS

Genius 3/3 10-80 KVA Specification

Model	3GCT3-10K	3GCT3-20K	3GCT3-30K	3GCT3-40K	3GCT3-60K	зGСТ3-80K				
Capacity (VA/WATT)	10KVA/9KW	20KVA/18KW	30KVA/27KW	40KVA/36KW	60KVA/54KW	80KVA/72KW				
Input										
Nominal Input Voltage	380/400/415Vac, (3Ph+N+PE)									
Input Voltage range			(380-25%	, 415+20%)Vac						
Input Frequency range			50/60	Hz (±5Hz)						
Input Power factor	≥0.98(with filter)									
Bypass										
Dimens	380/400/415Vac									
Bypass	Upper limit: +20% (+10%, +15%, +20% adjustable)									
Voltage	Lower limit: -40% (-10%, -20%, -30%, -40% adjustable)									
Bypass Frequency range	50/60Hz ± 10% (±2.5%, ±5%, ±10%, ±20% adjustable)									
Transfer time	Mains to Battery:0ms; Mains to Bypass:0ms									
Output										
Output Voltage	380/400/415Vac									
Voltage regulation	± 1%									
Output Frequency	50/60Hz(±0.05)									
Crest Factor	3:1 (Max.)									
Harmonic distortion (THDv)	<3% with linear load									
Efficiency	>89%	>90% >91% >92%								
Output Power Factor	0.9									
Battery										
Battery DC Voltage	384Vdc									
Battery Type	sealed lead acid									
Battery number	32 Pcs									
Backup time	Depends on the capacity of external batteries.									
System Features										
Overload capacity	Load≤ 110%:60min; ≤ 125%:last 10min; ≤ 150%:last 1min; > 150% turn to bypass mode									
Communication interface	RS232,RS485, Dry contact, SNMP card(optional)									
Physical			<u> </u>	<u> </u>						
Dimension (DxWxH)mm.	570 x 800 x 1195 760 x 880 x 1600									
Net Weight (KGs)	217	273	316	330	483	525				
Shipping weight (KGs)	272	328	371	385	553	595				
Environmental										
Operation temperature			0°C ~	~40°C						
Storage Temperature	-25°C ~55°C									
Humidity Range	0 ~95% (non-condensing)									
Noise level	<60dB <65dB									
Altitude	<1500m									
Standards										
Safety	IEC/EN62040-1,IEC/EN60950-1									
EMC	IEC/EN62040-2,IEC61000-4-2,IEC61000-4-3,IEC61000-4-4,IEC61000-4-5,IEC61000-4-6,IEC61000-4-8									
Design			IEC/EI	N 62040-3						
IP Rating				IP20						
						The same				

Genius 3/3 100-800 KVA Specification

Model	3GCT3-100K	3GCT3-120K	3GCT3-160K	3GCT3-200K	3GCT3-300K	3GCT3-400K	3GCT3-500K	3GCT3-600K	3GCT3-800K			
Capacity (VA/WATT)	100KVA/90KW	120KVA/108KW	160KVA/144KW	200KVA/180KW	300KVA/270KW	400KVA/360KW	500KVA/450KW	600KVA/540KW	800KVA/720KW			
Input												
Nominal Input Voltage	380/400/415Vac, (3Ph+N+PE)											
Input Voltage range	(380-25%, 415+20%)Vac											
Input Frequency range					50/60Hz (±5Hz)							
Input Power factor				113	≥0.98(with filter)			≥0.85				
Bypass												
D	380/400/415Vac											
Bypass	Upper limit: +20% (+10%, +15%, +20% adjustable)											
Voltage	Lower limit: -40% (-10%, -20%, -30%, -40% adjustable)											
Bypass Frequency range	50/60Hz(auto-sensing) ± 10% (±2.5%, ±5%, ±10%, ±20% adjustable)											
Transfer time	Mains to Battery:0ms; Mains to Bypass:0ms											
Output	The state of the s											
Output Voltage	380/400/415Vac											
Voltage regulation	± 1%											
Output Frequency	50/60Hz(±0.05)											
Crest Factor	3:1 (Max.)											
Harmonic distortion (THDv)	<2% with linear load											
Efficiency		>92%		>92.5%	>93%	>94%	>95% >96%					
Output Power Factor					0.9							
Battery												
Battery DC Voltage	384Vdc 480Vdc											
Battery Type	sealed lead acid											
Battery number	32 Pcs 40 Pcs											
Backup time	Depends on the capacity of external batteries.											
System Features												
Overload capacity	Load≤ 110%60min; ≤ 125%dast 10min; ≤ 150%dast 1min; > 150% turn to bypass mode											
Communication interface												
Physical												
Dimension (DxWxH)mm.									1100 x 3900			
Diffiension (Dxwxn)mm.	805 x 1160 x 1600		945 x 1400 x 1900		1040 x 1640 x 1900		1040 x 2800 x 1900		x 1950			
Net Weight (KGs)	800	903	1219	1425	1780	2050	3700	4500	6400			
Shipping weight (KGs)	890	993	1349	1555	1950	2200	3950	4750	6700			
Environmental												
Operation temperature					0°C ~40°C							
Storage Temperature	-25°C ~55°C											
Humidity Range	0 ~95% (non-condensing)											
Noise level	<65dB <70dB											
Altitude	<1500m											
Standards					. 1500111							
Safety	IEC/EN62040-1,IEC/EN60950-1											
EMC		IEC/EN62040-2,IEC61000-4-2,IEC61000-4-3,IEC61000-4-4,IEC61000-4-5,IEC61000-4-6,IEC61000-4-8										
Design		IEC/EN 62040-3										
IP Rating		IP20										
		100	100					-				