

## GP 339C SERIES

### 3/3 phase online LF UPS

### 10-120kVA



10-40kVA

60-80kVA

100-120kVA

Schematic appearance of 10-120kVA

GP339C Series is upgraded DSP controlled Online LF UPS with output isolation transformer. It can be your perfect large capacity power shield for your critical and industrial load.

#### QUALITY POWER SUPPLY

GP339C series is an On-Line double conversion (VFI) UPS with isolation output transformer, unit capacity from 10kVA to 120kVA. It is immune to the interferences on the electric power supply line as it has special input and output filters. World leading DSP technology, with high speed DSP processor are adopted to guarantee system's high stability and giving stable output power supply for all kinds of harsh load.

#### PERFECT APPLICATION:

Middle and large data center, Telecom, Finance, Traffic, Defense, Medical, Education, Energy, Manufacture, Industry, etc.

#### MAXIMUM RELIABILITY

The advanced DPS technology appliance considerably improves reliability, since a reduction

in electronic components lowers the likelihood of breakdowns. Digital control is provided by the microprocessor that, in the GP339C series controls all the internal parameters, thus increasing reliability and performance. In parallel connections, digital control ensures balance of the currents, which generally change over time due to phenomena such as vibrations and temperature, between the UPS units and the exchange of information with no need for manual tuning. MTBF >200,000h. GP339C has been designed so that it can be connected in parallel even after the installation of the first unit. The power availability can be increased thanks to various configurations available such as the parallel configuration, the Dual Bus function and the Dynamic Dual Bus system.

#### HIGH SPEED DSP PROCESSOR:

Ensuring the operation more fast and stable

#### OUTPUT 100% UNBALANCE LOAD

The ups can accept 3phase 100% unbalance load to satisfy kinds of load configuration.



### **ECO function:**

under good power condition, UPS can work in ECO mode, efficiency reach 98%, green and energy saving;

### **UPS FOR INDUSTRIAL LOADS**

GP339C with its strong overload capability, output galvanic isolation and low harmonic current distortion, is the ideal solution for industrial applications.

Thanks to the high battery current, GP339C Series is suitable to work with large battery banks as it can guarantee recharging in 10 hours as recommended by the battery manufacturer.

### **OPERATING FLEXIBILITY:**

All power ratings of the GP339C series can also be used as Frequency Converters 50 to 60 Hz and vice versa.

### **COLORFUL MULTIFUNCTIONAL PANEL**

The 7 inch colorful multifunctional panel allows easy and humanized operation of the UPS. It gives access to the most important parameters: status and alarms, control commands, input, output, battery measurements (power, current, voltage, frequency and temperature) and settings. The GP339C series' diagnostics system includes up to 128 alarms or messages allowing precise and detailed identification of any event.

### **Advanced Battery Management (ABM)**

Optimal battery management includes:

- Periodic battery test, and automatically transfer between boost charging and float charging to extend battery lifespan
- Automatically adjusting the battery charging current according to battery capacity
- Recharge temperature compensation (optional)
- Remaining back up time display

### **MAXIMUM SAFETY FOR PERSONNEL**

The back feed protection device prevents any voltage back feed in the upstream distribution board, thus ensuring the safety of the maintenance personnel.

### **FULL FRONT ACCESS AND CONVENIENT CABLE CONNECTION**

Full frontal access is for all power and electronic components, which reduces the floor space required and consequently reduces the installation costs. Configured with top and bottom cable connection

### **PERFECT HUMAN-MACHINE COMMUNICATION**

UPS Monitor software displays the most important information such as the input and output voltage, the load applied, the remaining back-up time, etc., in the form of bar graphs. The software is able to provide information even in the event of a failure, in support of the fault diagnostics. The UPS Monitor software can be used to program the automatic shutdown of all open systems in the event of a prolonged black out. GP339C can also operate with a network agent for applications on LAN or WAN networks.

The UPS contains the following hardware interfaces:

- RS232 /RS485 interface,
- Dry contacts: battery low, battery discharge, bypass/breakdown
- EPO (Emergency Power Off) contact for UPS shutdown using the remote emergency button.
- SNMP card(optional)

### **ADVANCED PARALLEL**

Maximum parallel up to 8 units and share the common battery pack. 10-80kVA parallel with parallel card only ; 100kVA-400kVA, parallel card with weaver reactance and different capacity UPS can be also be parallel;

### **DYNAMIC DUAL BUS SYSTEM**

Two independent systems set in Dual Bus Configuration can be merged together at any time for system expansion or maintenance. This provides a lot of flexibility in your installation in case of maintenance or when it is necessary to change the redundancy level of both systems.

### **EVENT LOG:**

1000 historical events can be saved, which is easy for tracing ups operation status and useful for maintenance



# Technical Specifications.

MODEL	GP 339CS 10K	GP 339CS 15K	GP 339CS 20K	GP 339CS 30K	GP 339CS 40K	GP 339CS 60K	GP 339CS 80K	GP 339CS 100K	GP 339CS 120K
Capacity	10kVA	15kVA	20kVA	30kVA	40kVA	60kVA	80kVA	100kVA	120kVA
SYSTEM									
Output PF	0.9(lag)								
System efficiency (inverter mode)	92%(@100% load) ;90% @50%load;								
System efficiency (ECO mode)	98%(@100%load)								
Maximum leakage current	100(mA)								
MTBF	Above 200,000hours								
Dry contact	Standard: 3 types signal(BAT. low,battery mode,bypass /failure) ; Optional:14 dry contact ; output: 12Vdc 80mA								
Communication interface	Standard RS232,optional: RS485 / MODBUS								
Operation temperature	0 ~ 40 °C								
Humidity	95 % (non-condense)								
Cooling	Forced air (speed varying according to load percent)								
Max. altitude	Within 1000m ( every 100increase,capacity decrease -1% ) ,Maximum 4000m								
Noise (dB)	52 ~ 58								
IP protection (EN 60529)	IP20								
Input/output way	Bottom /rear								
Safety standard	safety:GB4943 ,EN 50091-1; EMI:GB7260.2,GB/T 17626.2-5EMC, EN 50091-2								
PHYSICAL									
WxDxH(mm)	600*600*1280					800*800*1480		800*800*1800	
Weight(Kg)	195	210	220	305	340	500	600	800	950
AC INPUT									
Rated voltage	380/400/415Vac Three-phase four-wires								
Input voltage range	± 15 % (± 25 % adjustable)								
Rate frequency	50 / 60 Hz auto-sense								
Frequency range	50/60Hz ± 5Hz								
Input soft start function	0 - 100%,10-300s(settable)								
Input power factor	Reachable 0.99 (plus harmonic filter)								
Input current harmonic component (THDI)	Can <5% (plus harmonic filter)								
Max. input current [A]	18	27	36	54	72	108	144	180	216
THE OUTPUT CHARACTERISTIC OF THE RECTIFIER									
Maintain the voltage (20°C)	Battery type1 and 2 :V =435Vdc (2.266 x el.)								
	Battery type 3 :V =424Vdc (2.21 x el.)								
	Battery type 0:the voltage value between type 1and 2, Voltage regulating range: V =400~460Vdc								
Charging voltage (20°C)	Battery type1 and 2 :V (%recharging<95%) = 445Vdc (2.32 x el.)								
	Battery type 3 :V (%recharging<95%) = 460Vdc (2.4 x el.)								
	Battery type 0: the voltage value between type 1and 2, Voltage regulating range: V =400~460Vdc								
The highest charging voltage	445V								
The charger output voltage regulation accuracy	1%								
DC ripple voltage component	≤1%								
BATTERY									
Unit number(rated voltage)	384VDC(360-384v,selectable)								
Charging current settings	0.1C(battery capacity)								
The battery discharge end voltage	Battery type 1,2 and 3:no-load discharge current, V min=346 [Vdc]								
	Battery type 1,2 and 3:output current =Ah capacity, V min=316 [Vdc]								
	Battery type 1,2 and 3:output current >Ah capacity, V min=306 [Vdc]								
	Battery type 0: the factory set the default values, V min=320 [Vdc], Regulating range: V min =300~360[V dc]								
INVERTER OUTPUT									
Rated capacity [kVA]	10	15	20	30	40	60	80	100	120
Rated power [KW]	9	13.5	18	27	36	54	72	90	108
Rated voltage [V]	380/400/415VacThree-phase four-wires								
Rated current [A]	12	18	24	36	48	72	96	120	144
Phase voltage setting	200 ~ 244 V (control board)								
Peak factor	3:1								
Waveform	Sine wave								
Voltage phase shift (degrees)	100% balanced load ± 1'								
	100% unbalanced load ± 2'								
Phase voltage difference	100% balanced load ± 1 %								
	100% unbalanced load ± 3 %								
Total harmonic content(THDv)	100% linear load <2%								
	100% non-linear load <5%								
Steady-state voltage stability	± 1 %								
Transient voltage response	± 5 % within 10ms								
Rated frequency	Same as input								
Frequency stability	When asynchronous,± 0.5 %; synchronization,± 2 % (can be set to ± 1~5 %,by the panel operation)								
Overload	600' / 10' / 1' (110/125/150% rated current)								
Short circuit 0.1s	Double input								
Inverter efficiency(load 100%)	98%								
BYPASS									
Rated capacity [kVA]	10	15	20	30	40	60	80	100	120
Rated voltage [V]	380/400/415VacThree-phase four-wires								
Input voltage range	±15 % (can be adjusted from the control panel ± 10 %,± 20%)								
Rated frequency [Hz]	50 / 60								
Frequency range	±2 % (can be adjusted from the control panel ± 5 %)								
Transfer time	"STAND-BY ON" (Eco mode, the bypass switch to inverter) 2~5ms								
Inverter/bypass transfer time	<1ms								
Overload	10'/1'/18" (150/175/200% Rated current)								
Standard configuration	Feed flow protection, bypass independently isolated								



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