



GAMAPOWER

GP K990 Series

Online Transformerless UPS series, 3 level
PF 1.0 3:3 phase

Power range : 50~200kVA



High reliability design

- Wide input voltage range 138-485Vac (Phase voltage 80-280Vac), no derating when input voltage $\geq$ 305Vac

Power saving

- High input power factor, it can be up to 0.99
- 3-level inverter topology, the efficiency can be up to 95.5%

Parallel redundancy function

- Support parallel expanded operation: maximum is 6 units
- Support sharing batteries for the UPS in parallel

Compatible with generator

- Power Walk In function, it can reduce the start current impact to system, and it can reduce the capacity of generator

Strong load capacity

- Output power factor is 1.0, UPS can supply power to 100% unbalance load

- High adaptability for load, it can connect full inductive load or capacitive load

VRLA&Lithium battery supportable

- Compatible with VRLA or lithium battery

LBS function

- LBS function can realize 2 independent UPS system work in synchronization, and it enhances the reliability of the system

Intelligent management

- Support USB, RS485, RS232, BMS, SNMP, dry contact card

Technical Specifications:

MODEL	GP K9950H33	GP K9960H33	GP K9980H33	GP K99100H33	GP K99120H33	GP K99150H33	GP K99160H33	GP K99180H33	GP K99200H33
Capacity(VA/Watts)	50k / 50k	60k / 60k	80k / 80k	100k / 100k	120k / 120k	150k / 150k	160k / 160k	180k / 180k	200k / 200k

INPUT

Nominal voltage	380/400/415Vac (3Ph+N+PE)
Operating voltage range	138~485Vac for 40% load; 305~485Vac for full-load
Operating frequency range	40~70Hz (50/60Hz Auto-Sensing)
Power factor	≥0.99
Harmonic distortion (THDi)	≤3% Linear load
Bypass voltage range	Max.voltage:220V:+25% (Optional+10%,+15%,+20%) 230V:+20% (Optional+10%,+15%) 240V:+15% (Optional+10%) Min.voltage:-45% (Optional-20%,-30%)
Frequency protection range	50/60Hz ± 10%
Generator input	Support

OUTPUT

Output voltage	380/400/415Vac (3Ph+N+PE)
Voltage regulation	± 1%
Power factor	1.0
Output frequency	Line Mode: ± 1%/ ± 2%/ ± 4%/ ± 5%/ ± 10% of the rated frequency (Optional) Bat. Mode: (50/60 ± 0.2%)Hz
Crest factor	3:1
Harmonic distortion (THDv)	≤2% with linear load ≤4% with non linear load
Overload	Inverter Mode: ≤110% 60min, ≤125% 10min, ≤150% 1min, >150% immediately shut down inverter Bypass Mode: 30°C: 135% for long term; 40°C: 125% for long term; >1000%, 100ms

EFFICIENCY

Efficiency	up to 95.5%
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BATTERY

Battery voltage	Optional Voltage: ± 180V/ ± 192V/ ± 204V/ ± 216V/ ± 228V/ ± 240V/ ± 252V/ ± 264V/ ± 276V/ ± 288V/ ± 300Vdc(30/32/34/36/38/40/42/44/46/48/50pcs optional); 360Vdc~600Vdc (30~50pcs, 30pcs default, 36~50pcs output power factor 1.0; 32~34pcs output power factor 0.9; 30pcs output power factor 0.8)		
Charge Current (charge current can be set according to battery capacity installed)	20A Max.	40A Max.	60A Max.

SYSTEM FEATURES

Transfer time	Utility to Battery: 0ms; Utility to Bypass: 0ms
Backfeed protection	Support
Alarm	Overload, utility abnormal, UPS fault, battery low, etc
Protection	Short circuit, overload, over temperature, battery low, fan fault alarm
Remote LCD	Support
Communication	USB, RS232, RS485, parallel port, dry contact, intelligent slot, LBS, SNMP card (Optional), relay card (Optional)

ENVIRONMENTAL

Operating temperature	0°C ~ 40°C
Storage temperature	-25°C ~ 55°C (No battery)
Humidity range	0 ~ 95% (Non condensing)
Altitude	<1500m, derating required when >1500m
Noise level	<55dB <58dB <60dB <62dB <63dB <64dB <66dB

PHYSICAL

Dimension W × D × H (mm)	250 x 828 x 868		442 x 850 x 1200						
Net weight (kg)	80	83	140	160	170	200	205	215	220

STANDARDS

Safety	IEC/EN62040-1, IEC/EN62477-1
EMC	IEC/EN62040-2 (IEC 61000-2-2, IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, IEC 61000-4-8, IEC 61000-4-11)

Specifications are subject to change without prior notice.