



# ONLINE DOUBLE CONVERSION SINE-WAVE UPS

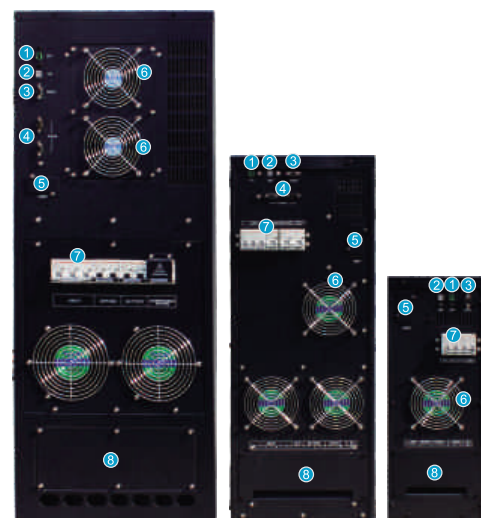
GS 9XX-LF Series from 6kVA to 30kVA

6KVA ~ 10KVA (1:1)  
10KVA ~ 30KVA (3:1)



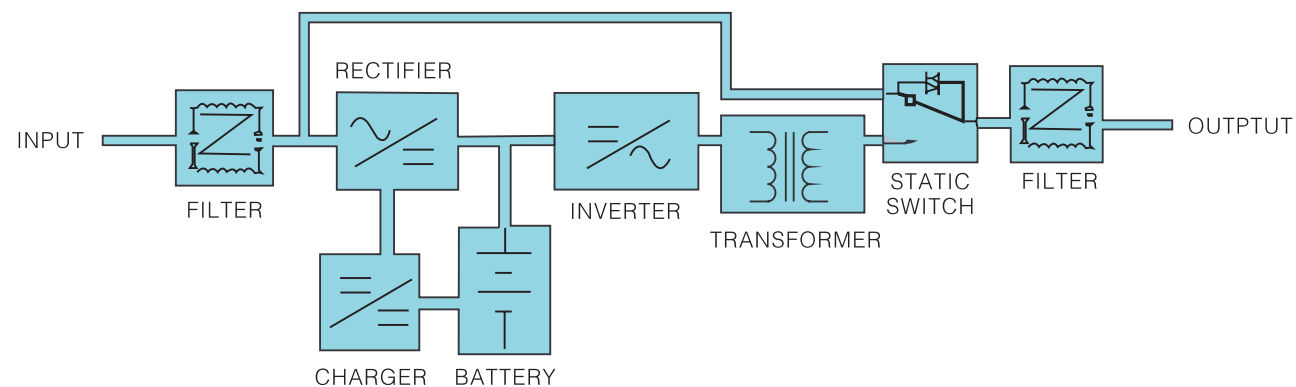
## Features

- Single / single-phase, three / single-phase models with on-line double conversion technology
- DSP (Digital Signal Processors) technology
- Suitable for all kinds of loads (resistive, inductive and non-linear loads etc)
- High overload capability (up to 150%)
- Bypass dual DSP control design to enhance more reliability
- Supports dual input, hot standby in series
- Redundant & parallelable with advanced parallel current-sharing control technology
- Cold start and mains start function
- High charging capability: 2 A / 4 A / 6 A / 8 A / 10 A / 12 A selectable (standard), 14 A / 16 A / 18 A / 20 A / 22 A / 24 A selectable (options)
- Standard configuration with output isolation transformer
- Superior protection (surges, short-circuit, overvoltages, undervoltages, overcharge, reverse connection protection etc)
- Advanced communications (RS232 and USB ports (standard), SNMP, dry contacts and RS485 (options))
- Other options (parallel kits, input isolation transformer, bypass isolation transformer and harmonic suppressor)



## Rear Panel

1. EPO
2. USB
3. RS232
4. Parallel port
5. SNMP (optional)
6. Fan
7. Breaker
8. Terminal



## Online Transformer Base UPS

### Specifications

MODEL	GS906-LF (1:1)	GS910-LF (1:1)	GS910-LF (3:1)	GS915-LF (3:1)	GS920-LF (3:1)	GS930-LF (3:1)
Capacity	6 KVA 4800 W	10 KVA 8 KW	10 KVA 8 KW	15 KVA 12 KW	20 KVA 16 KW	30 KVA 24 KW
<b>INPUT</b>						
Rated voltage	220 / 230 / 240 Vac (1 φ + N + PE)		380 / 400 / 415 Vac (3 φ + N + PE)			
Voltage range	165 ~ 275 Vac		285 ~ 475 Vac			
Rated frequency	50 Hz / 60 Hz					
Frequency range	40 ~ 70 Hz					
Frequency tracking range	± 5% Hz					
<b>BYPASS</b>						
Rated voltage	220 / 230 / 240 Vac (1 φ + N + PE)					
Overload capability	Load current < 150% rated current: long time running 150% ≤ load current < 200%: 1 min 200% rated current ≤ load current: 200 ms					
<b>BATTERIES</b>						
Battery voltage	192 Vdc					
Battery type	Sealed Lead Acid Rechargeable Battery					
Number of battery	12 V × 16 pcs					
Charging voltage	220 Vdc					
EOD	168 Vdc					
Charging current	Default 8 A (2 A / 4 A / 6 A / 8 A / 10 A / 12 A selectable)					
<b>OUTPUT</b>						
Rated voltage	220 / 230 / 240 (1 φ + N + PE)					
Power factor	0.8					
Waveform	Sinusoidal					
Rated frequency	50 Hz / 60 Hz (settable)					
Frequency precision	Mains mode: track bypass input in the state of synchronization Battery mode: 50 / 60 ± 0.1 Hz					
Voltage precision	± 1%					
Recovery time of transient voltage	< 20 ms					
Crest factor	3:1					
THDV	≤ 3% (linear load); ≤ 6% (non-linear load)					
Overload capability	Load ≤ 105%: long time running ; 105% < load ≤ 125%: transfer to bypass in 10 mins ; 125% < load ≤ 150%: transfer to bypass in 1 min 150% < load ≤ 200%: transfer to bypass in 200 ms 200% < load: transfer to bypass in 100 ms					
<b>OTHERS</b>						
Transfer time	0 ms					
Protections	Short-circuit – overload – overvoltage – undervoltage – low battery – overtemperature					
Communications	RS232 / USB (standard); RS485 / SNMP / dry contacts (optional)					
Operating temperature	0 ~ 40°C					
Storage temperature	-25°C ~ 55°C (without batteries);					
Relative humidity	0 ~ 95% (non-condensing)					
Operating altitude	≤ 1000 m (derating 1% for each additional 100 m)					
Noise level	< 60 dB (at 1 m)					
MTBF	MTBF > 200000 h					
MTTR	MTTR < 0.5 h					
IP rating	IP20					
Dimensions (W×D×H) (mm)	210 × 585 × 590	310 × 600 × 880		400 × 815 × 1100		
Packaged dimensions (W×D×H) (mm)	328 × 716 × 805	430 × 710 × 1080		525 × 925 × 1305		
Net weight (kg)	54	96	130	201	230	277
Gross weight (kg)	64	108	142	216	245	292

- All specifications subject to change without notice.
- Custom-made specifications are acceptable.