

SY-G Series 160-600KVA Industrial-Frequency UPS

Performance characteristics

- Advanced Rectifier and IGBT Technology. Input THDI≤4%, Input Power Factor≥0.99 to save more energy;
- Wide Input Voltage Range. High adaptive capacity and Generator Capability;
- High Load Compatibility and short-circuit protection. High Overload Ability;
- Input Power Factor can be upto >0.99 and THDI<4.5% with optional filters;
- Output Power Factor 0.9 without lagging;
- Self-Evaluation and Alarm of Phase Misconnection or Lost;

Compatible applications/loads

SY-G Series is designed for many different applications and compatible Loads, such as Data Center, Telecommunication Center,Network management center, financial center Security Trading Settlement Center, Banking. Large Theater, Stadium, traffic,Administration Bureau,Road and Railroad Tunnel Lightning Control and Monitoring Center, Port Information Center. Semiconductor production line, automatic production line and related devices.



Model	Capacity
SYG1600L33-N	160KVA/144KW
SYG2000L33-N	200KVA/180KW
SYG2500L33-N	250KVA/225KW
SYG3000L33-N	300KVA/270KW
SYG4000L33-N	400KVA/360KW
SYG5000L33-N	500KVA/450KW
SYG6000L33-N	600KVA/540KW

Specification

Model	SYG1600L33-N	SYG2000L33-N	SYG2500L33-N	SYG3000L33-N	SYG4000L33-N	SYG5000L33-N	SYG6000L33-N
Capacity	160KVA/144KW	200KVA/180KW	250KVA/225KW	300KVA/270KW	400KVA/360KW	500KVA/450KW	600KVA/540KW
	HOST MACHINE SPECIFICATION						
UPS Structure	Online Double Conversion						
Appearance	Low Frequency with Output Isolated Transformer						
Overall Efficiency (AC-AC)	94% (With Optional Accessories)						
ECO	98%						
Noise (In 2 Meters)	67dB						
Working Temp.	0-40°C						
Storage Temp.	-15 ~ 50°C (without batteries)						
Humidity	< 95% Non-Condensing						
National Standard	IEC60950-1, IEC62040-1-1						
International Standard	IEC62040-2, IEC62040-3						
Parallel Redundancy	Parallel Redundancy Upto 8 Units						
Protection	Overload, Short-Circuit, Over Temp., Utility Power Voltage High/low, BAT Voltage High/low						
DC Start	Available						
Generator Compatibility	Available						
Display	LCD Display(Multi-Language with all kinds of messages)+LED						
Mute	Auto						
Cabinet Standard	IP20						
Cooling System	Intelligent Speed Control Cooling Fan						
Elevation	< 1500M, Without Derated						
	RECTIFIER SPECIFICATION						
Input Voltage	380/400/415Vac+N+W (3 phase + PE)						
Input Voltage Range	298-498Vac						
Input Frequency Range	50/60Hz±10%						
Soft-Start	5-600 Seconds, Adjustable						
Input PF	0.95 (With Optional Input Wave Filter)						
THDI	< 5% (With Optional Accessories)						
	OUTPUT SPECIFICATION						
Output Voltage	Line Voltage: 380× (1±1%) AC or Phase Voltage: 220× (1±1%) AC						
Output PF	0.9						
Output Voltage Regulation	380Vac±1% (Static Load) ; 380Vac±2% (50-0% Sudden Change) ; 380Vac±3% (100-0% Sudden Change)						
Voltage Dynamic Response	±5%,(0 ~ 100% Sudden Change)						
Voltage Dynamic Response Time	< 5ms						
Synchronization Range	±5%						
Output Freq	±0.02% (BAT Mode)						
THD	< 1% (Linear Full Load) , < 3% (Non-Linear Full Load)						
3 Phase Unbalanced	Allow 3 Phase 100% Unbalanced						
Output Volt. Unbalanced	≤1% (Balanced Load) , ≤2% (50% Balanced Load)						
Input/Output Phase Shift	≤1° (Balanced Load) , ≤2° (50% Balanced Load)						
Frequency Tracking Range	45-65Hz						
Output Waveform	Pure Sine Wave						
Overload	With output PF 0.9, 105%: Long time Operation,110%: 1 Hour,125%: 10 Mins,150%:1 Min						
Crest Ratio	3 : 1						
Short-Circuit	Circuit Auto-Protection, Bypass Switch Tripping						
Output Abnormal	INV. Output Auto-Locked Protection						
	BYPASS SPECIFICATION						
Static Bypass Transfer Time	0ms						
Static Bypass Range	380/400/415Vac (±10%,±15%,±20% Selectable) 3 Phase+N(3 Phase+N+PE)						
Frequency Range	50/60Hz±10%						
Bypass -> INV Transfer Time	2ms						
Bypass Overload Ability	200%: 5 Mins; 1000%:10 Seconds						
Manual Maintenance Bypass	Available						
	BATTERY SPECIFICATION						
Type	Sealed Lead Acid Maintenance Free						
Std. Model Rated Volts/Units	12V,384Vdc/32 Units						
Float Charge Voltage	Equalized Charge, Float Charge, Intelligent Battery Management						
BAT Low	Shutdown Protection						
	COMMUNICATION SPECIFICATION						
Communication Port	RS232/SNMP/485/Dry Contact (Optional Accessory)						
Remote Software	Multi-functional Monitoring System, Online and BAT Mode Status, BAT Fault, Remote Control						
	PHYSICAL PARAMETERS						
Size mm(D)	855		855		855	855	955
Size mm(H)	1900		1900		1900	1900	1900
Size mm(W) 6 pulse	1245		1640		2265	--	--
Size mm(W) 12 pulse	1770		2265		2265	2615	2865
Net Weight Kg(6 pulse)	1075		1580		2105	--	--
Net Weight Kg(12 pulse)	1685		2090		2500	2850	3130

Note: Specifications are subject to change without further notice.