SHUYI UPS SOLUTIONS

SY - G Industrial-Frequency UPS

HEFEI SHUYI DIGITAL POWER CO., LTD.

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COMPANY
PROFILE

- Shuyi digital power, based on the core technology of power electronics, integrates innovative digital technology, provides comprehensive solutions for data center, high-end power supply and clean energy, promotes the transformation and development of digitalization and low-carbon energy in government, finance, industry, communication, transportation, Internet and other industries.

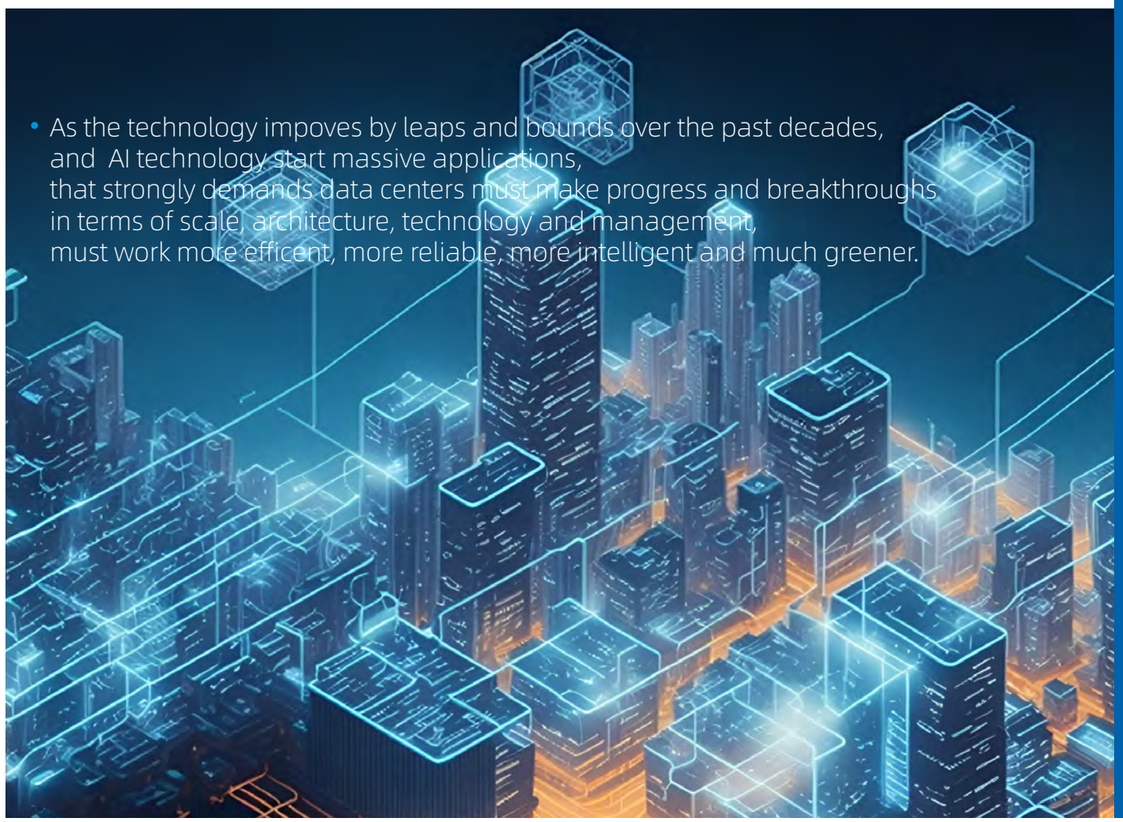
- With over 10 years of development, we have exported our various kinds of products and solutions to 86 countries and have branches and offices in over fifty countries and regions Our products and solution won a good reputation in quality and service

Mission

- Committed to innovation in digital energy technology and building a green and intelligent future

Vision

- Serve global customers and become a leading expert in digital Power infrastructuret



SHUYI

Hefei Shuyi Digital Power Co., Ltd.

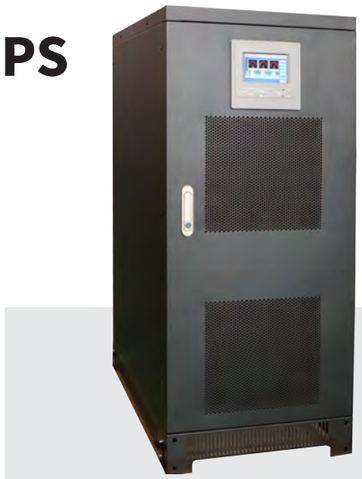
Products and Solutions

- Data Center Solution : Micro Data center, Modular Data Center， Prefabricated Container Data Center.
  Critical Power : PDU,UPS,DC Power System ,Lead Acid Battery, Lithium battery
  Thermal Management Solution : Room /In row precision air conditioner,Fluorine pump air conditioner Liquid cooling ,Free cooling
  PV Energy Storage : PV, Inverter， Energy Storage System

- Shuyi attaches great importance to product innovation and research and development
  Having industry-leading power electronics research and development centers, testing centers, and laboratories

- At present, we have established industry-leading electromagnetic compatibility laboratories, including Enthalpy difference laboratory, Environmental reliability laboratory, Noise laboratory, Vibration laboratory, Power laboratory, and IP protection laboratory. We passed the ISO9001 quality management system certification, ISO14001 environmental management system certification, and the products have passed CE ICE, UL certification.

SY-G Series 10-200KVA Industrial-Frequency UPS



Power range

10 - 200 kVA

Phase

100% 3 Phase Unbalanced Allowed

Application area

Widely applied in government, finance, communication, education, transportation, climate, broadcasting television, industry.
Various industries such as taxation, healthcare, energy and electricity.

Performance characteristics

- Advanced SCR Rectifier Technology.With additional accessories, the input PF can be upto 0.99 and Input THDI <4.5%
- 5th generation IGBT technology to adapt 380/400/415V, 50/60Hz Mains Grid Supply Systems
- Output Power Factor 0.9 to carry 12.5% load capacities than traditional UPS
- Overall Efficiency upto 90%. Can reach to 98% on ECO Mode
- Mis-Phase Connection Diagnosis, Evaluation and Alarm
- Front Maintenance Design. MTBF can be upto 300K Hours
- Powerful overload ability with output short circuit protection technology: 110%-120% overloads for 10 minutes.125%-150% for 1 minute
- Wide Input Voltage Range 380Vac (-45% to +25%) with 50/60Hz ±5% Freq. Range; High adaptive capacity and generator Capability
- 90% of system components are from international famous brands. All devices will be aged and tested for more than 24 hours

Specification

Model	SYG100L33	SYG150L33	SYG200L33	SYG300L33	SYG400L33	SYG600L33	SYG800L33	SYG1000L33	SYG1200L33	SYG1600L33	SYG2000L33
Capacity	10KVA 9KW	15KVA 13.5KW	20KVA 18KW	30KVA 27KW	40KVA 36KW	60KVA 54KW	80KVA 72KW	100KVA 90KW	120KVA 108KW	160KVA 144KW	200KVA 180KW
HOST MACHINE SPECIFICATION											
UPS Structure	Online Double Conversion										
Appearance	Low Frequency with Output Isolated Transformer										
Overall Efficiency (AC-AC)	90 %										
Noise (In 2 Meters)	< 50-60 dB										
Working Temp.	-10-40℃										
Storage Temp.	-25 ~ 60℃ (Without Batteries)										
Humidity	< 95%, Non-Condensing										
National Standard	EN50091-1/IEC950										
International Standard	EN 50091-1/2 ; EN62040-1 ; EN62040-2										
Parallel Redundancy	Available upto 8 units										
Protection	Overload, Short-Circuit, Over Temp., Utility Power Voltage High/low, BAT Voltage High/low										
ECO	Available										
EPO Function	Available										
DC Start	Available (Not Recommended)										
Generator Compatibility	Available										
Display	5-7 inch LCD color touch screen + LED working indicators including Input/Output Voltage, Frequency, Current, Power, Load Capacity, Serial Number, Operational Mode, Discharge Time, History Logs. All settings including can be done on the front panel, including battery voltage, input and output voltage, frequency, parallel setting and etc.										
Mute	Auto										
Cabinet Standard	IP20										
Cooling System	Intelligent Speed Control Cooling Fan										
Elevation	<1500M, Without Derated										
RECTIFIER SPECIFICATION											
Input Voltage	380Vac+N+W（3 phase + PE）										
Input Voltage Range	285-475Vac										
Input Frequency Range	45 - 65Hz										
Input PF	0.95 （ with input filter）										
THDI	< 5% (with optional accessories)										
Dual Input Availability	Available(Optional accessories)										
Input Mis Phase Protection	Misphase Alarm, UPS will not be started										
Input Phase lost Protection	Phase Lost Alarm, UPS work on Bypass mode										
Soft-Start	> 20 Seconds										
Input Current	23A	31A	39A	54A	70A	100A	125A	160A	192A	256A	320A
OUTPUT SPECIFICATION											
Output Voltage	Line Voltage: 380×（1±1%）AC or Phase Voltage: 220×（1±1%）AC										
Output PF	0.8/0.9 (No lag)										
Output Voltage Regulation	380Vac±1%（Static Load）； 380Vac±2%（50-0% Sudden Change）； 380Vac±3%（100-0% Sudden Change）										
Output Freq	±8% at 50Hz: Online Mode tracking input and bypass freq.; ±0.1%: when input or bypass frequency is more than ±8% or under 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 Swift	≤1°(Balanced Load); ≤2°(50% Balanced Load)										
Frequency Tracking Range	45-65Hz										
Output Waveform	Pure Sine Wave										
Overload	>125%: More than 10 mins； >150%: More than 60s transfer to bypass										
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 Input Range	380Vac（-15~+15%）										
Frequency Range	50/60Hz±1Hz, ±2Hz, ±3Hz Adjustable										
Bypass --> INV Transfer Time	2ms										
Frequency Tracking Speed	0.5-2hz/s										
Manual Maintenance Bypass	Available										
BATTERY SPECIFICATION											
Charging Methods	DSP Controlled Charger: Equalized/Pulse Charge, Float Charge, Intelligent Battery Management										
Type	Sealed Lead Acid Maintenance Free										
Rated Volts/Units	12V/384Vdc, Std. for 32 Units， adjustable from 28-32 units										
Float Charge Voltage	438Vdc										
Charging Current	Can be set from the front Screen										
Abnormal Protections	BAT over-charged, Emergency charger shutdown protection or UPS 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(W×H×D)	475 × 990 × 700			550×1100×800		605×1350×800		800×1600×800		1100×1850×850	
Net Weight Kg	210	223	230	280	330	450	550	630	750	810	855

Note: Specifications are subject to change without further notice.

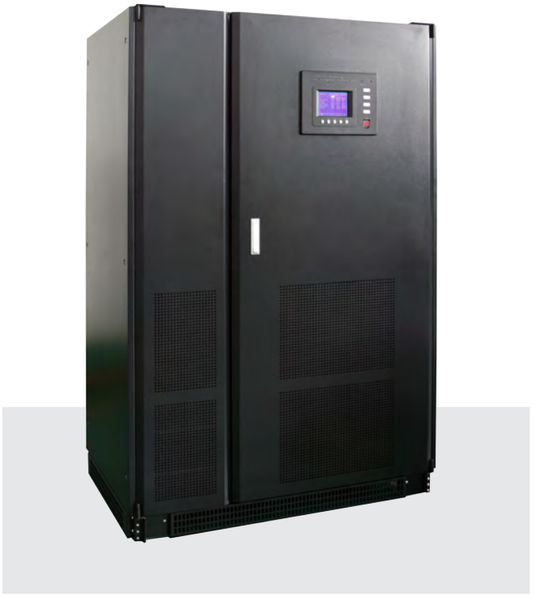
SY-G Series 160-600KVA Industrial-Frequency UPS

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℃						
Storage Temp.	-15～50℃（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 Swift	≤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		

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