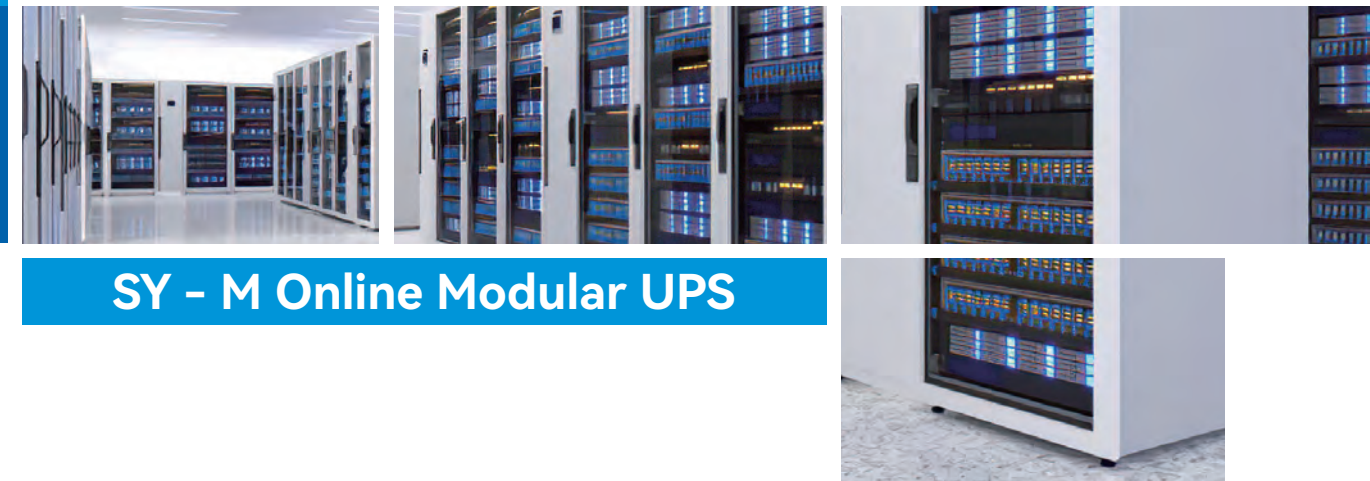


# SHUYI UPS SOLUTIONS



**SY - M Online Modular UPS**

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HEFEI SHUYI DIGITAL POWER CO., LTD.

# 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 infrastructure



- As the technology improves by leaps and bounds over the past decades, and AI technology start massive applications, that strongly demands data centers must make progress and breakthroughs in terms of scale, architecture, technology and management, must work more efficient, more reliable, more intelligent and much greener.

# SOETECK

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-M Series 20-200kVA Cabinet Modular UPS

Power range

20 - 200 kVA

Way of working

Three in, three out, dual transformation online operation

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

- The core power device adopts integrated packaged IGBT modules.
- The system host is configured with a 5.7-inch touch LCD display screen.
- Hot swappable static bypass monitoring module.
- Strong remote network management plan.
- Intelligent battery management plan.
- N+X redundant modular design.
- Ultra wide voltage input range.
- The holding cabinets are directly connected in parallel.



20kVA Power Module



60kVA



120kVA

Specification

Model	SYM060/20		SYM120/20		SYM200/20	
Capacity	60kVA		120kVA		200kVA	
	MAIN INPUT					
Input wiring	3-phase + N wire + PE					
Input voltage	380/400/415VAC (Line voltage)					
Input frequency	50/60Hz					
Power factor	>0.99					
Current distortion rate	THDi<3% (100%linear load)					
Voltage range	304~485VAC (Line voltage) fully loaded, 304~138AVC (Line voltage) Linear derating of load from 100% to 40%					
Frequency range	40 - 70Hz					
	BATTERY					
Battery voltage	± 240VDC (30~50 cells)					
Charging power	20% *active power					
Charging voltage accuracy	± 1%					
	BYPASS					
Bypass voltage	380/400/415VAC (Line voltage)					
Voltage range	-20%~+15%					
Bypass frequency range	50/60Hz (Rated frequency) ±1Hz, ±3Hz, ±5Hz					
	OUTPUT					
Rated output voltage	380/400/415VAC (Line voltage)					
Rated frequency	50/60Hz					
Output power factor	0.9					
Voltage accuracy	±1.0%					
Output dynamic response	<5% (20% - 80% - 20%step load)					
Dynamic recovery time	<20ms (0% - 100% - 0%step load)					
Output total harmonic Distortion (THDv)	<1% (Linear Load), <5.5% (Nonlinear load)					
Inverter overload	110%, switch to bypass after 1 hour; 125%, switch to bypass after 10 minutes; 150%, switch to bypass after 1 minute 150%, switch to bypass after 200ms					
Frequency accuracy	0.1%					
Tracking range	Can be set, ± 0.5Hz~± 5Hz, default ± 3Hz					
Tracking rate	Can be set, 0.5Hz/S~3Hz/S, default 0.5Hz/S					
Ratio of peak values	3 : 1					
Three phase phase accuracy	120° ± 0.5°					
	SYSTEM					
System efficiency	Normal mode ≥ 95%, economic mode ≥ 99%					
Battery mode efficiency	≥ 95%					
Display	LCD+LED, Touch screen+control panel					
Language	Proficient in multiple languages, including Simplified Chinese, Traditional Chinese, English, Korean, French, Polish, Japanese, Russian, Spanish, Italian, and Portuguese					
Protection grade	IP20					
Communication interface	RS232、RS485、Contact point, SNMP card, EPO, generator interface					
Operating temperature	0~40℃					
Storage temperature	-25℃~70℃					
Relative humidity	0~95% (no condensation)					
Noise (dB)	<66dB					
Option	SNMP network communication card, lightning protection module, battery temperature compensator, mobile SMS alarm, dustproof, dual input unit, seismic components					
Cabinet type	3-module cabinet		6-module cabinet		10-module cabinet	
	SIZE(W*D*H)MM					
Host	600*900*1100		600*900*1600		600*900*2000	
SYM20 module	440*590*134					
	WEIGHT(KG)					
Host (including modules)	171		277		399	
SYM20 module	25					

Note: Specifications are subject to change without further notice.

# SY-M Series 25/30-300kVA Cabinet Modular UPS

Power range

25 – 300 kVA

Way of working

Three in and three out, dual transformation online operation.

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

- Rich module product line of 25kVA/30kVA, with a power module height of only 3U.
- The system host is configured with a 10.4 inch color LCD touch display screen.
- The core power device adopts integrated packaged IGBT modules.
- High transmission power factor.
- Maintain the "zero threshold" and battery cold start function.
- Fully digital control, remote EPO function.
- Strong remote network management plan.
- Hot swappable static bypass monitoring module.
- Intelligent battery management plan.
- N+X redundant modular design.
- Ultra wide voltage input range.



Display device



25kVA/30kVA power module



180kVA

Specification

Model	SYM150/25X	SYM250/25X	SYM120/30X	SYM180/30X	SYM300/30X
Capacity	150kVA	250kVA	120kVA	180kVA	300kVA
	MAIN INPUT				
Rated input voltage	380/400/415VAC (Line voltage)				
Rated frequency	50/60Hz				
Input voltage	304~485VAC (Line voltage) fully loaded, 304~138AVC (Line voltage) Linear derating of load from 100% to 40%				
Input frequency range	40 - 70Hz				
Input power factor	> 0.99				
Current distortion rate	THDi < 3% (100% linear load)				
	BATTERY				
Rated voltage of battery	± 240VDC (30~50 cells)				
Charging voltage accuracy	± 1%				
Charging power	20% *active power				
	BYPASS				
Rated voltage of bypass	380/400/415VAC (Line voltage)				
Rated frequency of bypass	50/60Hz				
Bypass voltage range	Can be set, default -20% to+15%; Upper limit:+10%,+15%,+20%,+25%; Lower limit: -10%, -15%, -20%, -30%, -40%				
Bypass frequency range	Can be set to ± 1Hz ± 3Hz ± 5Hz				
	OUTPUT				
Rated output voltage	380/400/415VAC (Line voltage)				
Rated frequency	50/60Hz				
Output power factor	1				
Voltage accuracy	±1.0%				
Output dynamic response	<5% (20% - 80% - 20%step load)				
Dynamic recovery time	<20ms (0% - 100% - 0%step load)				
Output total harmonic Distortion (THDv)	<1% (Linear Load), <5% (Nonlinear load)				
Inverter overload	<110%, 1 hour; 125%, 10 minutes; 150%, 1 minute;> 150%,200ms				
Frequency accuracy	0.1%				
Tracking range	Can be set, ± 0.5Hz~± 5Hz, default ± 3Hz				
Tracking rate	Can be set, 0.5Hz/S~3Hz/S, default 0.5Hz/S				
Ratio of peak values	3 : 1				
Three phase phase accuracy	120° ± 0.5°				
	SYSTEM				
Main road mode	≥ 95%				
Battery mode	≥ 95%				
Display	LED+LCD+color touch screen 10.4 inches				
Language	I speak multiple languages, including Simplified Chinese, Traditional Chinese, English, Russian, Italian, Korean, Portuguese, Spanish, German, Polish, French, Japanese, Czech, Serbian				
Interface	Standard: RS232, RS485, USB, programmable contacts				
Protection grade	IP20 / IP21				
Operating temperature	0~40℃				
Storage temperature	-40℃~70℃				
Relative humidity	0~95% (no condensation)				
Noise (1 meter)	65dB @ 100% load, 62dB @ 45% load				
Altitude	<1000m, between 1000~2000m, with a power reduction of 1% for every 100m of height				
Option	SNMP network communication card, lightning protection module, battery temperature compensator, mobile SMS alarm, dust-proof and earthquake resistant components				
	SIZE(W*D*H)MM				
Host	600*1100*1600	600*1100*2000	600*980*1400	600*1100*1600	600*1100*2000
Module	460*790*134 (SYM25X)		460*790*134 (SYM30X)		
	WEIGHT (KG) (INCLUDING MODULES)				
Module cabinet	6-module cabinet	10-module cabinet	4-module cabinet	6-module cabinet	10-module cabinet
Host	376	572	266	382	582
Module	33 (SYM25X)		34 (SYM30X)		

Note: Specifications are subject to change without further notice.

# SY-M Series 40/50-600kVA Cabinet Modular UPS

## Power range

40 – 600 kVA

## Way of working

Three in and three out, dual transformation online operation.

## 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

- Three in three out pure online dual conversion product, providing ideal power supply quality and load protection.
- The input power factor is as high as 0.99, the input harmonic current is less than 3%, and the overall efficiency is greater than 96%, efficient and energy-saving.
- Adopting DSP full digital control, various power transformations including rectification, inversion, charging, and discharging have been achieved All stages will be digitally controlled.
- Equipped with intelligent sleep mode and adjustable rest time for sleep rotation, achieving green light, Energy saving.
- Adopting an intelligent "three-stage" battery charging and discharging management system.
- Modular design, with hot swappable power modules for easy on-site maintenance.



100 kVA



40kVA / 50kVA Power Module

## Specification

Model	SYM080/40X	SYM100/50X	SYM160/40X	SYM200/50X	SYM240/40X	SYM300/50X	SYM400/50X	SYM500/50X	SYM600/50X
Capacity	80kVA	100kVA	160kVA	200kVA	240kVA	300kVA	400kVA	500kVA	600kVA
	MAIN INPUT								
Input method	3P + N + PE								
Input voltage	380/400/415VAC (Line voltage)								
Power factor	> 0.99								
Current distortion rate	THDi < 3% (100% linear load)								
Voltage range	304-485VAC (line voltage) full load, 304-138VAC (line voltage), load linearly derating from 100% to 40%								
Frequency range	40 - 70Hz								
	BATTERY								
Battery voltage	± 240VDC (30~50 cells)								
Charging power	20% *active power								
Charging voltage accuracy	± 1%								
	BYPASS								
Rated voltage	380/400/415VAC (Line voltage)								
Voltage range	Can be set, default -20% to+15%; Upper limit:+10%,+15%,+20%,+25%; Lower limit: -10%, -15%, -20%, -30%, -40%								
Frequency range	Can be set, (± 1Hz, ± 3Hz, ± 5Hz)								
	OUTPUT								
Rated output voltage	380/400/415VAC (Line voltage)								
Rated frequency	50/60Hz								
Output power factor	1								
Voltage accuracy	±1.0%								
Output dynamic response	<5% (20% - 80% - 20%step load)								
Dynamic recovery time	<20ms (0% - 100% - 0%step load)								
Output total harmonic Distortion (THDv)	<1% (Linear Load), <5% (Nonlinear load)								
Inverter overload	<110%, 1 hour; 125%, 10 minutes; 150%, 1 minute;> 150%,200ms								
Frequency accuracy	0.1%								
Tracking range	Can be set, ± 0.5Hz~± 5Hz, default ± 3Hz								
Tracking rate	Can be set, 0.5Hz/S~3Hz/S, default 0.5Hz/S								
Ratio of peak values	3 : 1								
Three phase phase accuracy	120° ± 0.5°								
	SYSTEM								
Main road mode	≥ 96%								
Battery mode	≥ 96%								
Display	LCD+LED+color touch screen								
Language	I speak multiple languages, including Simplified Chinese, Traditional Chinese, English, Russian, Italian, Korean, Portuguese, Spanish, German, Polish, French, Japanese, Czech, Serbian								
EMC	IEC62040-2; IEC61000-4-2(ESD); IEC61000-4-3(RS); IEC61000-4-4 (EFT); IEC61000-4-5 (Surge)								
Protection grade	IP20								
Noise (1 meter)	72dB@100 %Load, 69dB@45 %Load								
Operation temperature	0-40℃								
Relative humidity	0-95% (no condensation)								
Altitude	<1000m, between 1000-2000m, with a power reduction of 1% for every 100m of height								
Option	SNMP card, AS400 card, parallel component, lightning protection component, dust-proof device, LBS								
	SIZE(W*D*H)MM								
Host	600*980*1150		650*960*1600		650*1095*2000		1050*1100*2000	1300*1114*2000	1300*1114*2000
Module	510*700*178 (SYM40X、SYM50X)								
	WEIGHT (KG) (INCLUDING MODULES)								
Module cabinet	2 module cabinets		4 module cabinets		6 module cabinets		8 module cabinets	10 module cabinets	12 module cabinets
Host	210		350		490		700	900	1000
Module	44 (SYM40X)、45 (SYM50X)								

Note: Specifications are subject to change without further notice.



# SY-M Series 400~1600kVA Cabinet Modular UPS

### Power range

400 ~ 1600 kVA

### Way of working

3Ph+N+PE/3Ph+PE (optional)

### 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

- Online double conversion
- Battery cold start function
- Advanced power module sleep mode
- Dual system control card
- Self-load test function
- Frequency converter function
- Redundant design
- 100kVA 3U design



100kVA 3U



### Specification

Model(100kVA)		SYM400	SYM500	SYM600	SYM800	SYM1000	SYM1100	SYM1200	SYM1300	SYM1400	SYM1500	SYM1600
Capacity		400kVA	500kVA	600kVA	800kVA	1000kVA	1100kVA	1200kVA	1300kVA	1400kVA	1500kVA	1600kVA
		INPUT										
Voltage Range (Vac)		138~485 (324~485 no derating, 138~323 linear derating)										
Frequency Range (Hz)		40~70										
Power Factor		>0.99										
Phase		3Ph+N+PE/3Ph+PE (optional)										
Bypass synchronization tracking range (Hz)		50/60±4										
Bypass input voltage range (Vac)		304~438										
Battery Voltage(VDC)		±180~±300										
		OUTPUT										
Power Factor		1.0										
Phase		3Ph+N+PE										
Voltage (Vac)		380/400/415±1%										
Frequency (Hz)		50/60±0.1%										
THDv		THD<1% (linear load), THD<3% (nonlinear load)										
Max. Efficiency		97%										
Overload Capacity		106~110% load for 60 minutes, 111%~125% load for 10 minutes, 126%~150% load for 1minute, 151%~200% load change to bypass immediately										
Static Bypass Transfer Time		0										
Cool Start		Yes										
		GENERAL										
Working Temperature (°C)		0~40										
Storage Temperature (°C)		-40~70										
Relative Humidity		0~95%, no condensation										
Battery Type		Lead-acid batteries and lithium iron phosphate batteries										
Communication Interface		RS232, RS485, Dry contact, MODBUS, SNMP (optional)										
Alarm		Input abnormal, battery low-voltage, output overload, UPS failure										
Protection		Short-circuit, overload, over-temperature, battery under voltage, input under voltage										
Noise (dB)		<70										
Dimension (W×D×H)(mm)		1200*1000*2000			1400*1000*2000	2400*1000*2200						
Weight(kg)	Cabinet	480	506		580	950						
	Bypass Module	32	50		60	180						
	Power Module	55										

- There are other optional accessories to choose;
- Specifications are subject to change without notice;
- Because of module redundancy, it is not recommended to configure only one power module.

# SY-M Series 60-600kVA Intelligent Modular UPS

Power range

60 – 600 kVA

Way of working

Three in and three out, dual transformation online operation.

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

- Three in three out pure online dual conversion product, providing ideal power supply quality and load protection.
- The input power factor is as high as 0.99, the input harmonic current is less than 3%, the overall efficiency is greater than 97%, and it is highly energy-efficient.
- By adopting DSP full digital control, all power conversion links including rectification, inversion, charging, and discharging have been digitally controlled.
- Equipped with intelligent sleep mode, it can set rotation time for sleep rotation, achieving green energy saving.
- Adopting an intelligent multi-stage battery charging and discharging management system.
- Modular design, with hot swappable power modules for easy on-site maintenance.
- Intelligent system self diagnosis plan, rich fault records, and large capacity historical record storage space.
- Standard configuration includes a 10 inch large LCD touch screen with rich information content. It is compatible with SNMP and RS485 dual ports, allowing for multiple monitoring and control on one screen, making it versatile for practical use.



60kVA



Specification

Model	SYM600/60D
Capacity	600kVA
MAIN INPUT	
Input method	3P + N + PE
Input voltage	380/400/415VAC (Line voltage)
Power factor	> 0.99
Current distortion rate	THDi < 3% (100% linear load)
Voltage range	323~478VAC (line voltage), full load, @ 30~40 °C 323~138VAC (line voltage), linearly derating load from 100% to 30%, @ 30~40 °C 323~138VAC (line voltage)+battery combined power supply, load greater than linear derating, @ 30~40 °C
Frequency range	40 – 70Hz
BATTERY	
Battery voltage	± 240VDC (30~44 cells)
Charging power	Maximum 30% * active power
Charging voltage accuracy	± 1%
BYPASS	
Rated voltage	380/400/415VAC (Line voltage)
Voltage range	Can be set, default -20% to+15%; Upper limit:+10%,+15%,+20%,+25%; Lower limit: -10%, -15%, -20%, -30%, -40%
Frequency range	Adjustable, ± 1Hz, ± 3Hz, ± 5Hz
OUTPUT	
Rated output voltage	380/400/415VAC (Line voltage)
Rated frequency	50/60Hz
Output power factor	1
Voltage accuracy	±1.0%
Output dynamic response	< 5% (0% - 100% - 0% step load)
Dynamic recovery time	< 40ms (0% - 100% - 0%step load)
Output total harmonic Distortion (THDv)	< 1% (Linear Load), < 5% (Nonlinear load)
Inverter overload	110%, switch to bypass after 1 hour; 125%, switch to bypass after 10 minutes; 150%, switch to bypass after 1 minute 150%, switch to bypass after 200ms
Frequency accuracy	0.1%
Tracking range	Can be set, ± 0.5Hz~± 5Hz, default ± 3Hz
Tracking rate	Can be set, 0.5Hz/S~3Hz/S, default 0.5Hz/S
Ratio of peak values	3 : 1
SYSTEM	
Main road mode	≥ 97%
Battery mode	≥ 96%
Display	LCD+LED+color touch screen
Language	I speak multiple languages, including Simplified Chinese, Traditional Chinese, English, Russian, Italian, Korean, Portuguese, Spanish, German, Polish, French, Japanese, Czech, Serbian
Protection grade	IP20
Noise (1 meter)	75dB @ 100% load, 70dB @ 45% load
Operation temperature	0 – 40°C
Relative humidity	0 – 95% (no condensation)
Altitude	< 1000m, between 1000~2000m, with a power reduction of 1% for every 100m of height
Communication interface	Standard: RS485, USB, CAN, programmable Ethernet card, 2 smart card slots, 1 expandable Ethernet card slot
Option	SNMP card, AS400 card, parallel component, lightning protection component, dual input component, LBS
SIZE(W*D*H)MM	
Host	800*1100*2000
Module	550*750*85 (SYM60D)

Note: Specifications are subject to change without further notice.

# SY-M Series 100-600kVA Intelligent Modular UPS

### Power range

100 – 600 kVA

### Way of working

Three in and three out, dual transformation online operation.

### 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

- Three in three out pure online dual conversion product, providing ideal power supply quality and load protection.
- The input power factor is as high as 0.99, the input harmonic current is less than 3%, the overall efficiency is greater than 96%, and it is highly energy-efficient.
- By adopting DSP full digital control, all power conversion links including rectification, inversion, charging, and discharging have been digitally controlled.
- Equipped with intelligent sleep mode, it can set rotation time for sleep rotation, achieving green energy saving.
- Adopting an intelligent multi-stage battery charging and discharging management system.
- Modular design, with hot swappable power modules for easy on-site maintenance.
- Intelligent system self diagnosis plan, rich fault records, and large capacity historical record storage space.
- Standard configuration includes a 10 inch large LCD touch screen with rich information content. It is compatible with SNMP and RS485 dual ports, allowing for multiple monitoring and control on one screen, making it versatile for practical use.
- Super strong load adaptability, super strong overload and short-circuit capability.



100 kVA



### Specification

Model	SYM600/100D
Capacity	600kVA
MAIN INPUT	
Input method	3P + N + PE
Input voltage	380/400/415VAC (Line voltage)
Power factor	> 0.99
Current distortion rate	THDi < 3% (100% linear load)
Voltage range	323~478VAC (line voltage) full load @ 30 °C, 323~191VAC (line voltage), linear derating from 100% to 45% load @ 30 °C 191~138VAC (line voltage), linearly derating load from 45% to 35%, @ 30 °C
Frequency range	40 – 70Hz
BATTERY	
Battery voltage	± 240VDC (30~44 cells)
Charging power	15% * active power
Charging voltage accuracy	± 1%
BYPASS	
Rated voltage	380/400/415VAC (Line voltage)
Voltage range	Can be set, default -20% to+15%; Upper limit:+10%,+15%,+20%,+25%; Lower limit: -10%, -15%, -20%, -30%, -40%
Frequency range	Adjustable, ± 1Hz, ± 3Hz, ± 5Hz
OUTPUT	
Rated output voltage	380/400/415VAC (Line voltage)
Rated frequency	50/60Hz
Output power factor	1
Voltage accuracy	±1.0%
Output dynamic response	< 5% (0% - 100% - 0% step load)
Dynamic recovery time	< 40ms (0% - 100% - 0%step load)
Output total harmonic Distortion (THDv)	< 1% (Linear Load), < 5% (Nonlinear load)
Inverter overload	110%, switch to bypass after 1 hour; 125%, switch to bypass after 10 minutes; 150%, switch to bypass after 1 minute 150%, switch to bypass after 200ms
Frequency accuracy	0.1%
Tracking range	Can be set, ± 0.5Hz~± 5Hz, default ± 3Hz
Tracking rate	Can be set, 0.5Hz/S~3Hz/S, default 0.5Hz/S
Ratio of peak values	3 : 1
SYSTEM	
Main road mode	≥ 96%
Battery mode	≥ 95%
Display	LCD+LED+color touch screen
Language	I speak multiple languages, including Simplified Chinese, Traditional Chinese, English, Russian, Italian, Korean, Portuguese, Spanish, German, Polish, French, Japanese, Czech, Serbian
Protection grade	IP20
Noise (1 meter)	75dB @ 100% load, 70dB @ 45% load
Operation temperature	0 – 40℃
Relative humidity	0 – 95% (no condensation)
Altitude	< 1000m, between 1000~2000m, with a power reduction of 1% for every 100m of height
Communication interface	Standard: RS485, USB, CAN, programmable Ethernet card, 2 smart card slots, 1 expandable Ethernet card slot
Option	SNMP card, AS400 card, parallel component, lightning protection component, dual input component, LBS
SIZE(W*D*H)MM	
Host	1000*1100*2000
Module	440*794.5*174 (SYM100D)

Note: Specifications are subject to change without further notice.



# SY-M Series Built In Isolation Transformer Modular UPS

Power range

20 – 60 kVA

Way of working

Three in and three out, dual transformation online operation.

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

- The Envision modular UPS can be equipped with DZN0 isolation transformer at the output end, which improves power supply quality, reduces zero ground voltage, optimizes the UPS terminal power supply network, enhances overload and short circuit protection capabilities, isolates safe loads, and makes the application field of Envision modular UPS more extensive.
- Friendly human-machine interface: 7-inch LCD touch screen with abundant information.



SYM060-TX Side

Specification

Model	SYM060 - TX			
Capacity	20 ~ 60kVA			
	MAIN INPUT			
Input wiring	3-phase + N wire + PE			
Input voltage	380/400/415VAC (Line voltage)			
Input frequency	50/60Hz			
Power factor	> 0.99			
Current distortion rate	THDi<3% (100%linear load)			
Voltage range	304~485VAC (Line voltage) fully loaded, 304~138AVC (Line voltage) Linear derating of load from 100% to 40%			
Frequency range	40 - 70Hz			
	BATTERY			
Battery voltage	± 240VDC (30~50 cells)			
Charging power	20% *active power			
Charging voltage accuracy	± 1%			
	BYPASS			
Bypass voltage	380/400/415VAC (Line voltage)			
Voltage range	-20%~+15%			
Bypass frequency range	50/60Hz (Rated frequency) ±1Hz, ±3Hz, ±5Hz			
	OUTPUT			
Rated output voltage	380/400/415VAC (Line voltage)			
Rated frequency	50/60Hz			
Output power factor	0.8			
Voltage accuracy	±1.0%			
Output dynamic response	< 5% (20% - 80% - 20%step load)			
Dynamic recovery time	< 20ms (0% - 100% - 0%step load)			
Output total harmonic Distortion (THDv)	< 1% (Linear Load), < 5.5% (Nonlinear load)			
Inverter overload	110%, switch to bypass after 1 hour; 125%, switch to bypass after 10 minutes; 150%, switch to bypass after 1 minute 150%, switch to bypass after 200ms			
Frequency accuracy	0.1%			
Tracking range	Can be set, ± 0.5Hz~± 5Hz, default ± 3Hz			
Tracking rate	Can be set, 0.5Hz/S~3Hz/S, default 0.5Hz/S			
Ratio of peak values	3 : 1			
Three phase phase accuracy	120° ± 0.5°			
	SYSTEM			
System efficiency	Normal mode ≥ 92%, economic mode ≥ 95%			
Battery mode efficiency	≥ 92%			
Display	LCD+LED, Touch screen+control panel			
Protection grade	IP20			
Communication interface	RS232、RS485、 Contact point, SNMP card, EPO, generator interface			
Operating temperature	0~40℃			
Storage temperature	-25℃~70℃			
Relative humidity	0~95% (no condensation)			
Noise (dB)	< 55dB			
Option	SNMP network communication card, lightning protection module, battery temperature compensator, mobile SMS alarm, dustproof, dual input unit, seismic components			
	INFORMATION			
Feet (W * D * H) mm Weight (kg) (including modules)	SYM30X	30kVA power module	34 kg	460*790*134
	Main cabinet (including transformer)	SYM060/30X	571 kg	600*976*1800
Special Instructions	20kVA~60kVA, can be installed in the cabinet, but for sizes larger than 60kVA, a separate transformer cabinet needs to be added			

Note: Specifications are subject to change without further notice.

# SY-M Series 20~60kVA Integrated Module UPS

Power range

20 – 60 kVA

Way of working

Three in and three out, dual transformation online operation.

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

- Equipped with a 20kVA power module. Optional configuration includes 3 power modules and 16 pluggable battery pack modules. The single cabinet achieves high availability, reliability, flexibility, low cost, and saves space in a modular UPS power supply system. Under full load, it can provide approximately 10 minutes of battery life.
- The core power device adopts integrated packaged IGBT modules.
- The system host is configured with a 5.7-inch touch LCD display screen.
- Hot swappable static bypass monitoring module.
- Strong remote network management plan.
- Intelligent battery management plan.
- N+X redundant modular design.
- Ultra wide voltage input range.
- High transmission power factor.
- Remote EPO function.
- Maintain a zero threshold
- Battery cold start function.
- Repair the bypass function.



20kVA power module



Pluggable battery pack

Specification

Model	SYM060/20B			
Capacity	20 – 60kVA			
	MAIN INPUT			
Input wiring	3-phase + N wire + PE			
Input voltage	380/400/415VAC (line voltage) 220/230/240VAC (phase voltage)			
Input frequency	50/60Hz			
Power factor	> 0.99			
Current distortion rate	THDi < 3% (100% linear load)			
Voltage range	304~485VAC (Line voltage) fully loaded, 304~138AVC (Line voltage) Linear derating of load from 100% to 40%			
Frequency range	40 – 70Hz			
	BATTERY			
Battery voltage	± 240VDC (30~50 cells)			
Charging power	20% *active power			
Charging voltage accuracy	± 1%			
	BYPASS			
Bypass voltage	380/400/415VAC (Line voltage)			
Voltage range	-20% ~ +15%			
Bypass frequency range	50/60Hz (rated frequency) ± 1Hz, ± 3Hz, ± 5Hz			
	OUTPUT			
Rated output voltage	380/400/415VAC (Line voltage)			
Rated frequency	50/60Hz			
Output power factor	0.9			
Voltage accuracy	±1.0%			
Output dynamic response	<5% (20% - 80% - 20%step load)			
Dynamic recovery time	<20ms (0% - 100% - 0%step load)			
Output total harmonic Distortion (THDv)	<1% (Linear Load), <5% (Nonlinear load)			
Inverter overload	110%, switch to bypass after 1 hour; 125%, switch to bypass after 10 minutes; 150%, switch to bypass after 1 minute 150%, switch to bypass after 200ms			
Frequency accuracy	0.1%			
Tracking range	Can be set, ± 0.5Hz~± 5Hz, default ± 3Hz			
Tracking speed	Can be set, 0.5Hz/S~3Hz/S, default 0.5Hz/S			
Ratio of peak values	3 : 1			
Three phase phase accuracy	120° ± 0.5°			
	SYSTEM			
System efficiency	Normal mode ≥ 95%, economic mode ≥ 99%			
Battery mode efficiency	≥ 95%			
Display	LCD+LED, touch screen+control panel			
Protection level	IP20			
Communication interface	RS232 RS485 contact SNMP card EPO			
Operating temperature	0~40℃			
Storage temperature	-25℃ ~ 70℃			
Relative humidity	0~95% (no condensation)			
Noise (dB)	<55dB			
Options	SNMP network communication card, lightning protection module, battery temperature compensator, mobile SMS alarm, dustproof, dual input unit, seismic components			
	LENGTH (W * D * H) MM, WEIGHT			
Cabinet (including modules)	600*1020*2000			826kg
SYM20 power module	440*590*134 (20kVA)	number	3	22kg
Battery pack module	120*824*177	number	16	30kg
PDU module	440 * 590 * 134 Note: When inserting a PDU module, the power module slot is reduced by one			

Note: Specifications are subject to change without further notice.

# SY-M Series 10/15~90kVA Rack Mounted Modular UPS

## Power range

10 – 90 kVA

## Way of working

Three in three out/three in single out/single in single out (SYM020/10X, SYM040/10X, SYM060/10X), dual transformation online operation. Three in and three out (SYM030/15X, SYM045/15X, SYM090/15X), dual transformation online operation.

## 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

- Installation of embedded standard cabinet
- Rich supporting products
- Ultra large color LCD touch screen
- Quick installation, flexible and convenient
- Flexible input and output modes



20kVA



40kVA



Standard server cabinet

## Specification

Model	SYM020/10X	SYM030/10X	SYM040/10X	SYM060/10X	SYM030/15X	SYM045/15X	SYM090/15X
Capacity	20kVA	30kVA	40kVA	60kVA	30kVA	45kVA	90kVA
	MAIN INPUT						
Input wiring	3-phase + N wire + PE						
Input voltage	380/400/415VAC (line voltage) 220/230/240VAC (phase voltage)						
Input frequency	50/60Hz						
Power factor	>0.99						
Current distortion rate	THDi<3% (100%linear load)						
Voltage range	304~485VAC (Line voltage) fully loaded, 304~138AVC (Line voltage) Linear derating of load from 100% to 40%						
Frequency range	40 - 70Hz						
	BATTERY						
Battery voltage	± 240VDC (30~50 cells)						
Charging power	20% *active power						
Charging voltage accuracy	± 1%						
	BYPASS						
Bypass voltage	380/400/415VAC (line voltage) 220/230/240VAC (phase voltage)						
Voltage range	Default -20% -+15%- 40% --+25% optional						
Overload capacity	125%, running time; 130%, shut down after 10 minutes; 150%, shut down after 1 minute; 150%<load, shutdown after 300 milliseconds				110%, running in 长 time; 130%, shut down after 10 minutes; 150%, shut down after 1 minute; 150%<load, shutdown after 300 milliseconds		
	OUTPUT						
Rated output voltage	380/400/415VAC (Line voltage)						
Rated frequency	50/60Hz						
Output power factor	1						
Voltage accuracy	1.5%						
Output dynamic response	<5% (20% - 80% - 20%step load)						
Dynamic recovery time	<20ms (0% - 100% - 0%step load)						
Output total harmonic Distortion (THDv)	<1% (Linear Load), <5.5% (Nonlinear load)						
Inverter overload	102%, long-term operation; 110%, switch to bypass after 1 hour; 125%, switch to bypass after 10 minutes; 150%, switch to bypass after 1 minute 150%, switch to bypass after 200 milliseconds						
Frequency accuracy	0.1%						
Tracking range	Can be set, ± 0.5Hz~± 5Hz, default ± 3Hz						
Tracking rate	Can be set, 0.5Hz/S~3Hz/S, default 0.5Hz/S						
Ratio of peak values	3 : 1						
Three phase accuracy	120° ± 0.5°						
	SYSTEM						
System efficiency	Main road mode ≥ 95%; Economic model ≥ 98%; Battery mode ≥ 94.5%						
Display	LCD+LED+color touch screen 7 inches						
Protection grade	IP20						
Language	I speak multiple languages, including Simplified Chinese, Traditional Chinese, English, Russian, Italian, Korean, Portuguese, Spanish, German, Polish, French, Japanese, Czech, Serbian						
Communication interface	RS232, RS485, Ethernet connection, SNMP card (optional), emergency shutdown						
Wiring method	There are options for rear and lower entry lines			Offline entry line	There are options for rear and lower entry lines		Offline entry line
Working environment	0~40 °C (working temperature)- 25 °C~70 °C (storage temperature); 0~95% (non condensing)						
Noise (dB) (1m)	<56dB						
Cabinet type	2 module cabinets	3 module cabinets	4 module cabinets	6 module cabinets	2 module cabinets	3 module cabinets	6 module cabinets
	SIZE(W*D*H)MM						
Host	485*697*398	485*697*575	485*697*575	485*751*1033	485*697*398	485*751*575	485*751*1033
Host (placed in server cabinet)	485*697*308(7U)	485*751*575(11U)	485*697*485(11U)	485*751*928(21U)	485*697*308(7U)	485*751*485(11U)	485*751*928(21U)
Module	436*590*85 mm (2U)						
	WEIGHT(KG)						
Host	48	94	88	150	48	94	150
Module	25				25		

Note: Specifications are subject to change without further notice.



# SY-M Series 25~200kVA Rack Mounted Modular UPS

Power range

25 – 200 kVA

Way of working

Three in and three out, dual transformation online operation.

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

- High power density: 25kVA module, 2U high degree, greatly saves land area, and is easy to expand.
- Rack mounted modular design: The modules are compatible with 19 inch standard racks, which is very convenient for installation in computer rooms.
- Installation methods: rack mounted (recommended to use a standard 19 inch cabinet with a depth of 1200mm or more), tower mounted.
- Battery cold start: can be started by the battery without mains power.
- Friendly human-machine interface: 7-inch LCD large color screen (touch screen) with rich information content.
- High transmission power factor.



SY-M 150/25C



25kVA Power Module

Specification

Model	SYM150/25C	SYM200/25C
Capacity	150kVA	200kVA
	MAIN INPUT	
Input wiring	3-phase + N wire + PE	
Input voltage	380/400/415VAC (line voltage)	
Input frequency	50/60Hz	
Power factor	>0.99	
Current distortion rate	THDi<3% (100%linear load)	
Voltage range	304~485VAC (Line voltage) fully loaded, 304~138AVC (Line voltage) Linear derating of load from 100% to 40%	
Frequency range	40 – 70Hz	
	BATTERY	
Battery voltage	± 240VDC (30~50 cells)	
Charging power	20% *active power	
Charging voltage accuracy	± 1%	
	BYPASS	
Bypass voltage	380/400/415VAC (line voltage)	
Voltage range	Can be set, default -20%~+15% upper limit:+10%,+15%,+20%,+25% lower limit: -10%, -15%, -20%, -30%, -40%	
Bypass frequency range	50/60Hz (rated power), adjustable: ± 1Hz, ± 3Hz, ± 5Hz	
	OUTPUT	
Rated output voltage	380/400/415VAC (Line voltage)	
Rated frequency	50/60Hz	
Output power factor	1	
Voltage accuracy	± 1%	
Output dynamic response	<5% (20% - 80% - 20%step load)	
Dynamic recovery time	<20ms (0% - 100% - 0%step load)	
Output total harmonic Distortion (THDv)	<1% (Linear Load), <5.5% (Nonlinear load)	
Inverter overload	110%, switch to bypass after 1 hour; 125%, switch to bypass after 10 minutes; 150%, switch to bypass after 1 minute 150%, switch to bypass after 200ms	
Frequency accuracy	0.1%	
Tracking range	Can be set, ± 0.5Hz~± 5Hz, default ± 3Hz	
Tracking rate	Can be set, 0.5Hz/S~3Hz/S, default 0.5Hz/S	
Ratio of peak values	3 : 1	
Three phase phase accuracy	120° ± 0.5°	
	SYSTEM	
Main road mode efficiency	≥ 95.5%	
Battery mode efficiency	≥ 95%	
Display	LCD+LED+color touch screen	
Language	I speak multiple languages, including Simplified Chinese, Traditional Chinese, English, Russian, Italian, Korean, Portuguese, Spanish, German, Polish, French, Japanese, Czech, Serbian	
Protection grade	IP20	
Communication interface	RS232, RS485, contacts, battery cold start	
Operating temperature	0~40 °C	
Storage temperature	-40°C~70°C	
Relative humidity	0~95% (no condensation)	
Noise (dB)	65dB@100 %Load, 62dB@45 %Load	
Option	SNMP network communication card, parallel component, lightning protection component, 150K machine can be optionally equipped with power distribution unit	
Cabinet type	6-module machine	8-module machine
	SIZE(W*D*H)MM	
Host	482*916*931	482*916*1550
Host (Placing server cabinets)	482 * 916 * 840 (19U) (upper wire) 482 * 916 * 1368 (31U) (lower incoming line, without dismantling the casters)	482 * SYM150/25C 916 * 1550 (35U) (without removing casters)
SYM25C module	436*677*85 (2U)	
	WEIGHT(KG)	
Host (Including modules)	221 (upper line), 254 (lower line, without removing the wheels)	317
SYM25C module	20.5	

Note: Specifications are subject to change without further notice.

# SY-M Series

## Rack mounted modular UPS

Power range

5 – 20 kVA

Way of working

Triple input single output/single input single output, dual transformation online operation.

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

- Tower/rack mounted installation.
- Adopting DSP control to achieve fully digital control of rectification/inversion/charging and discharging processes.
- Friendly human-machine interface, equipped with color LCD touch screen and control buttons, rich in information.
- Intelligent battery management plan effectively extends the service life of batteries.
- Digital circulation control technology improves the reliability of parallel machines and supports multiple parallel machines.
- The shared battery pack for parallel use allows for more flexible configuration.
- The panel is equipped with an EPO emergency shutdown button to prevent misoperation.
- All circuit boards adopt the three proof process.
- The whole machine is equipped with input/bypass/output/maintenance switches as standard.
- Optional charging module ensures reliable charging of the battery.



5kVA



Battery Module

Specification

Model	SYM3120/05DS
Capacity	20kVA (maximum)
MAIN INPUT	
Input wiring	3-phase + N wire + PE
Input voltage	380/400/415VAC (line voltage) 220/230/240VAC (phase voltage)
Input frequency	50/60Hz
Power factor	>0.95
Current distortion rate	THDi<5% (100%linear load)
Voltage range	277~478VAC (line voltage), 147~277VAC (line voltage) at full load, linearly derating from 100% to 50% load
Frequency range	40 – 70Hz
BATTERY	
Battery voltage	144VDC (default 12 knots, 13/14 knots optional)
Charging current	0~1.8A can be set (for each power module)
Charging voltage accuracy	± 1%
BYPASS	
Bypass voltage	220/230/240VAC
Voltage range	Default -20% ~+15%~ 40% ~+25% optional
Overload capacity	125%, running time; 125%<load<130%, shut down after 5 minutes; 130%<load<150%, shut down after 1 minute; 150%<load, shutdown after 200 milliseconds
OUTPUT	
Rated output voltage	220/230/240VAC
Rated frequency	50/60Hz
Output power factor	1
Voltage accuracy	± 2%
Output dynamic response	<5% (20% - 80% - 20%step load)
Dynamic recovery time	<20ms (0% - 100% - 0%step load)
Output total harmonic Distortion (THDv)	<1% (Linear Load), <5% (Nonlinear load)
Inverter overload	Main mode:<110%, 1 hour; 110%~130%, 10 minutes; 130%~150%, 1 minute;> 150%, 200 milliseconds; Battery mode:<110%, 10 minutes, 110%~125%, 1 minute; 125%~130%, 10 seconds;> 130%, 200 milliseconds
Frequency accuracy	50/60Hz ± 0.01%
Tracking range	Can be set, ± 0.5Hz~± 5Hz, default ± 3Hz
Tracking rate	Can be set, 0.5Hz/S~3Hz/S, default 0.5Hz/S
SYSTEM	
System efficiency	Main road mode ≥ 94.5%
Display	LCD+LED+color touch screen 7 inches
Language	Supports multiple languages, including Simplified Chinese, Traditional Chinese, English, Korean, and French
Protection grade	IP20
Communication interface	Standard: RS232, RS485, USB, programmable contacts, battery cold start
Connection	Offline entry line
Work environment	0~40 ℃ (working temperature)- 40 ℃~70 ℃ (storage temperature); 0~95% (non condensing)
Noise (dB) (1 meter)	55dB @ 100% load
SIZE(W*D*H)MM	
Host	443*695*928
Power Module	200*431*84.5 ( 2U )
Battery Module	200*516*84.5 ( 2U )
WEIGHT(KG)	
Main cabinet (excluding modules)	66.5
Power Module	7.5
Battery Module	17.8

Note: Specifications are subject to change without further notice.