Wise power, wise choice

PRODUCT CATALOGUE

www.wisepowerusa.com

American Wise Power Technologies, INC.

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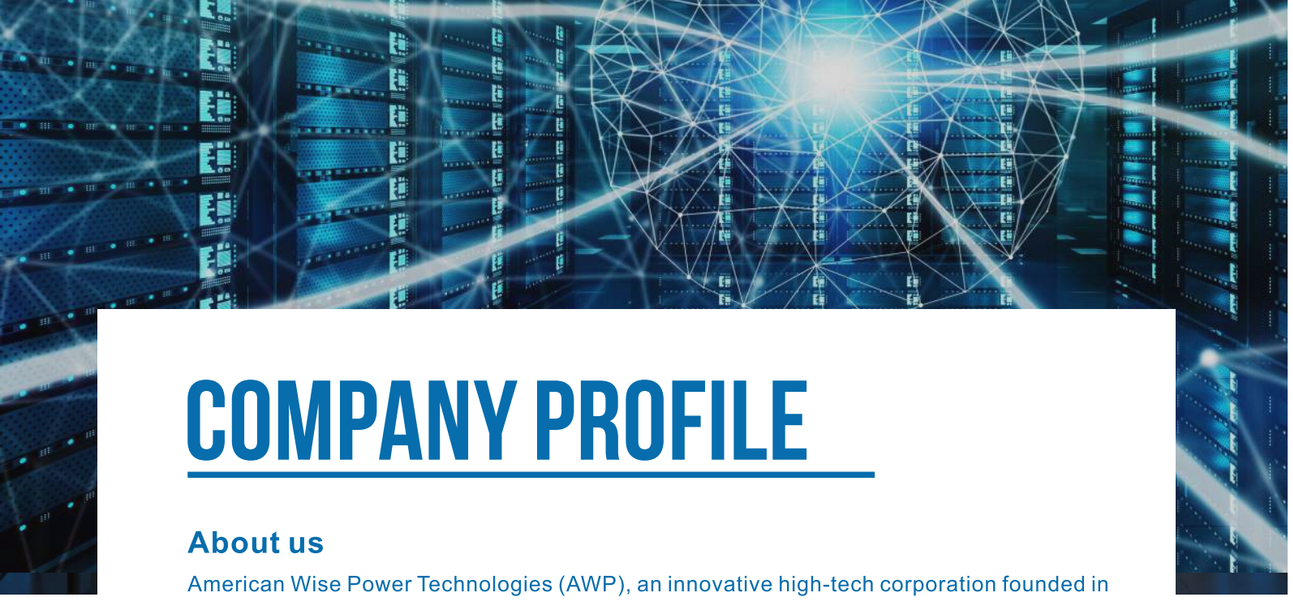


COMPANY PROFILE

About us

American Wise Power Technologies (AWP), an innovative high-tech corporation founded in California, specializes in R&D, manufacturing and marketing of power supplies products and provides green, low cost and intelligent energy and solutions to various applications such as data center, PV power plants.

Our Mission

AWP is committed to provide globally with green, energy-saving, stable, reliable and continuous power supplies products and perfect solutions. Customer's satisfaction is always our perpetual quest and in order to create consistent value for customers, we place great emphasis on our customers' market challenges and requirements by providing first-class power supply solutions with quality guaranteed products as well as best service to enhance their competitiveness and profitability.

Our Products

Combined with German technology, American administration and Chinese manufacturing, our products reach the balance of quality and cost. Our main products include:Data Center Solutions (UPS included) Solar PV Solutions (Solar inverter included)

Our Team

AWP comprises of passionate professionals and a high efficiency management team, and they endeavor to make AWP a world leading green energy solutions supplier. At present AWP team has built trusted and respected offices in Singapore, Hong Kong, Indonesia and Viet Nam, and it is our desire to always be improving, expanding and developing our service team to meet growing customers' demands.

CONTENTS

Aide

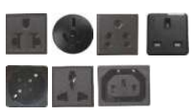
400VA ~ 3000VA

Features

- LED display or LCD display selectable
- Microprocessor-based digital control
- Boost and buck AVR for voltage stabilization
- Auto sensing frequency
- Wide input voltage range
- Power-on self test
- Cold start
- Auto restart when mains power is restored
- Auto track mains phase to ensure that inverter output voltage has same phase with utility voltage, reducing transfer time and peak surge
- Intelligent battery management: battery temperature compensation to extend the battery life; three-stage charging to shorten recharge time
- Short circuit, battery overcharge / overdischarge, overload, surge protections
- Automatic charging in OFF mode
- Optional no-load shutdown
- Optional USB communication port and RJ45 protection
- Unattended safety shutdown: system alarm and auto Power-Off by USB interface communicating with PC

Details

1. Output Outlets (selectable)
2. TEL/Modem/Fax surge protection (optional)
3. USB communication (optional)
4. AC Input
5. AC Breaker
6. Fan



Optional outlets

400VA 600VA/800VA 1200VA 1500VA/2000VA 3000VA

Technical specifications

MODEL	AID 240	AID 260	AID 280	AID 2120	AID 2150	AID 2200	AID 2300
Capacity	400VA/ 240W	600VA/ 360W	800VA/ 480W	1200VA/ 720W	1500VA/ 900W	2000VA/ 1200W	3000VA/ 1800W
INPUT							
Voltage	100 V / 110 V / 120 V: 80 ~ 150 Vac; 220 V / 230 V / 240 V: 162 ~ 295 Vac (220 V: 145 ~ 295 Vac optional)						
Frequency	50 / 60 Hz ± 10% (auto-sense)						
OUTPUT							
Voltage	100 / 110 / 120 Vac ± 10% or 220 / 230 / 240 Vac ± 10%						
Frequency	50 / 60 Hz ± 1% (auto-sense)						
Waveform	Mains mode: pure sine wave; Battery mode: simulated sine wave						
Transfer time	Typical 8 ms, 10 ms max.						
BATTERIES							
DC voltage	12 V			24 V			48 V
Configuration	12 V / 4.5 Ah × 1	12 V / 7.0 Ah × 1	12 V / 8.0 Ah × 1	12 V / 7.0 Ah × 2	12V / 8.0 Ah × 2	12 V / 9.0 Ah × 2	12 V / 9.0 Ah × 4
Recharge time	6 ~ 8 h						
OTHERS							
Protections	Short circuit, battery overcharge, overdischarge, overload, surge						
Communications	USB (optional)						
Humidity	20 ~ 90% RH @ 0 ~ 40℃ (non-condensing)						
Noise level	≤ 45 dB (1m)						
Net / Gross weight (kg)	3.3 / 3.5	4.2 / 4.7	4.9 / 5.3	8.8 / 9.4	9.4 / 10.0	10.2/10.8	19.3/20.6
Dimensions (W x D x H) (mm)	100 × 200 × 142	100 × 280 × 142		136 × 328 × 186			157 × 452 × 211
Packaged dimensions (W x D x H) (mm)	139 × 242 × 210	139 × 325 × 210		185 × 374 × 269			238 × 536 × 295
Quantity / 20 ft	/						658 pcs

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

AidePro

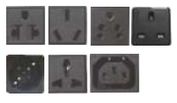
400VA ~ 1500VA

Features

- LED display or LCD display selectable
- Microprocessor-based digital control
- Boost and buck AVR for voltage stabilization
- Auto sensing frequency
- Wide input voltage range
- Power-on self test
- Cold start
- Auto restart when mains power is restored
- Auto track mains phase to ensure that inverter output voltage has same phase with utility voltage, reducing transfer time and peak surge
- Intelligent battery management: battery temperature compensation to extend the battery life; three-stage charging to shorten recharge time
- Short circuit, battery overcharge / overdischarge, overload, surge protections
- Automatic charging in OFF mode
- Optional no-load shutdown
- Optional USB & RJ45 ports
- Unattended safety shutdown: system alarm and auto Power-On / Off by USB interface communicating with PC

Details

1. Output Outlets (selectable)
2. TEL/Modem/Fax surge protection (optional)
3. USB (optional)
4. AC Input
5. Fuse



Optional outlets

Technical specifications

MODEL		AID 240 PRO	AID 260 PRO	AID 280 PRO	AID 2120 PRO	AID 2150 PRO
Capacity		400 VA / 240 W	600 VA / 360 W	800 VA / 480 W	1200 VA / 720 W	1500 VA / 900 W
INPUT						
Voltage		100 / 110 / 120 V: 80 ~ 150 Vac; 220 / 230 / 240 V: 162 ~ 295 Vac (145 ~ 295 Vac optional)				
Frequency		50 / 60 Hz ± 10% (auto-sensing)				
OUTPUT						
Voltage		100 / 110 / 120 Vac ± 10% or 220 / 230 / 240 Vac ± 10%				
Frequency		50 / 60 Hz ± 1% (auto-sensing)				
Waveform		Mains mode: pure sine wave; Battery mode: simulated sine wave				
Transfer time		Typical 2 ~ 7 ms, 10 ms max.				
BATTERIES						
DC voltage		12 V			24 V	
Configuration		12 V / 4.5 Ah × 1	12 V / 7.0 Ah × 1	12 V / 8.0 Ah × 1	12 V / 7.0 Ah × 2	12 V / 8.0 Ah × 2
Recharge time		6 ~ 8 h				
COMMUNICATIONS						
USB (optional)		Supports Windows® 98 / 2000 / 2003 / XP / Vista / 2008 / Windows® 7 / 8 / 10				
OTHERS						
Protections		Short circuit, battery overcharge, overdischarge, overload, surge				
Humidity		20 ~ 90% RH @ 0 ~ 40℃ (non-condensing)				
Noise level		⩽ 45 dB (1 m)				
Plastic case	Net / Gross weight (kg)	3.8 / 4.2	4.2 / 4.6	5.0 / 5.4	9.4 / 9.9	9.8 / 10.3
	Dimensions (W × D × H) (mm)	90 × 305 × 165			115 × 320 × 220	
	Packaged dimensions (W × D × H) (mm)	133 × 349 × 232			161 × 369 × 290	
	Quantity / 20 ft	2300 pcs			1400 pcs	

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

ArcPure

500VA ~ 3000VA

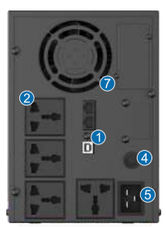
Features

- Pure sine wave output
- DSP digital control
- Boost and buck AVR for voltage stabilization
- Auto sensing frequency
- Adjustable charging current and battery shutdown point
- Settable ECO mode and no-load shutdown
- Humanized alarm system
- Power-on self test
- Cold start
- Auto restart when mains power is restored
- Intelligent battery management
- Short circuit and overload protection
- Automatic charging in OFF mode
- USB & RJ45, AS400 / SNMP (optional) communication port

Rear Panel

1. USB / RJ45
2. Output Outlets
3. EXT Battery (optional)
4. AC Breaker
5. Input
6. SNMP (optional)
7. Fan

3 kVA (H)



3 kVA (S)

Optional outlets

RT

Technical specifications

MODEL	ARC 500	ARC 1000	ARC 1500	ARC 2000	ARC 3000
Capacity	500 VA / 300 W	1000 VA / 800 W	1500 VA / 1200 W	2000 VA / 1600 W	3000 VA / 2400 W
DC INPUT					
Rated voltage	12 V	24 V		36 V (S) 48 V (H)	48 V
DC input range (default)	10 ~ 15 V	20 ~ 30 V		30 ~ 45 V (S) 40 ~ 60 V (H)	40 ~ 60 V
AC INPUT					
AC input range (bypass mode)	0 ~ 121 / 132 / 138 / 144 Vac for 100 / 110 / 115 / 120 Vac ± 10 Vac 0 ~ 242 / 264 / 276 / 288 Vac for 200 / 220 / 230 / 240 Vac ± 10 Vac				
AC input range (mains mode)	100 V: 70 ~ 130 Vac 110 V: 80 ~ 140 Vac 115 V: 85 ~ 145 Vac 120 V: 90 ~ 150 Vac 200 V: 145 ~ 260 Vac 220 V: 165 ~ 280 Vac 230 V: 175 ~ 290 Vac 240 V: 185 ~ 300 Vac				
Frequency input range	50 / 60 Hz (auto-sensing), 50 / 60 Hz ± 5% ~ 15%				
Generator connection	Available (generator input power is settable)				
OUTPUT					
Inverter output range	100 / 110 / 115 / 120 / 200 / 220 / 230 / 240 Vac ± 5% (settable)				
AC output range (bypass mode)	0 ~ 121 / 132 / 138 / 144 Vac for 100 / 110 / 115 / 120 Vac ± 10 Vac 0 ~ 242 / 264 / 276 / 288 Vac for 200 / 220 / 230 V / 240 Vac ± 10 Vac				
AC output range (mains mode)	100 V: 90 ~ 110 Vac 110 V: 99 ~ 121 Vac 115 V: 103 ~ 126 Vac 120 V: 108 ~ 132 Vac 200 V: 166 ~ 226 Vac 220 V: 188 ~ 245 Vac 230 V: 199 ~ 254 Vac 240 V: 210 ~ 264 Vac				
Output frequency	50 / 60 Hz ± 0.3 Hz (settable)				
Waveform	Pure sine wave				
Inverter efficiency	Max. 75%	Max. 80%		Max. 85%	
Energy saving mode	Settable (< 3% load) , enter in 80 s				
No-load shutdown	Settable (< 3% load), shut down in 80 s				
Transfer time	≤ 10 ms				
THDV (resistive load)	≤ 5%				
Protections	Overload, short circuit (inverter), battery low voltage, battery overcharge, overtemperature				
Overload (mains mode)	110% for 120 s, 125% for 60 s, 150% for 10 s (transfer to bypass mode)				
Overload (inverter mode)	110% for 60 s, 125% for 10 s, 150% for 5 s (shut down directly)				
Mute	Automatic mute in 60 s or by manual				
BATTERIES					
Inbuilt battery (standard model)	/	12 V / 7 Ah x 2	12 V / 9 Ah x 2	12 V / 9 Ah x 3	12 V / 9 Ah x 4
Charging current	Standard model (S): 1 A (default)				
	Long time model (H): 10 A (default); < 10 A, set step 1 A; ≥ 10 A, set step 5 A				
	Max. 10 A (H)	Max. 15 A (H)	/	Max. 20 A (H)	Max. 25 A (H)
Equalizing charge voltage	Single battery 14.1 Vdc (default), 13.6 ~ 15 Vdc adjustable				
Floating charge voltage	Single battery 13.5 Vdc (default), 13.2 ~ 14.6 Vdc adjustable				
Low voltage alarm point	Single battery 10.8 Vdc (default), 9.6 ~ 13 Vdc adjustable				
Low voltage shutdown point	Single battery 10.2 Vdc (default), 9.6 ~ 11.5 Vdc adjustable				
OTHERS					
Communications	USB & RJ45 (standard), dry contacts / SNMP (optional)				
Operating temperature	5℃ ~ 40℃				
Operating humidity	Relative humidity ≤ 93%				
Noise level	≤ 50 dB (1 m)				
Tower	Dimensions (W × D × H) (mm)	144 × 345 × 215 (S / H)		144 × 410 × 215 (S) 144 × 345 × 215 (H)	157.5 x 460x 221.5 (S) 190 x 467 x 335.5 (H)
	Packaged dimensions (W × D × H) (mm)	236 × 427 × 316 (S / H)		236 × 492 × 316 (S) 236 × 427 × 316 (H)	238 x 550 x 305 (S) 320 x 592 x 462(H)
	Net weight (kg)	7.0 (H)	12.2 (S) 11.6 (H)	14.2 (S)	18.5 (S) 17.8 (H)	23.6 (S) 28.0 (H)
	Gross weight (kg)	8.0 (H)	13.2 (S) 12.6 (H)	15.2 (S)	19.8 (S) 18.8 (H)	25 (S) 30.0 (H)
Rack-mount	Dimensions (W × D × H) (mm)	/	440 × 338 × 88 (S)	440 × 410 × 132 (S)		
	Packaged dimensions (W × D × H) (mm)	/	611 × 448 × 208 (S)	611 × 505 × 235 (S)		
	Net weight (kg)	/	14.6 (S)	17.2 (S)	21.3 (S)	26.7 (S)
	Gross weight (kg)	/	16.8 (S)	20.4 (S)	24.5 (S)	30.5 (S)

- S means standard model, H means long time model.
- All specifications are subject to change without notice.
- Custom-made specifications are acceptable.

Alpha Pro

1kVA ~ 3kVA
PF 0.9 (1:1)

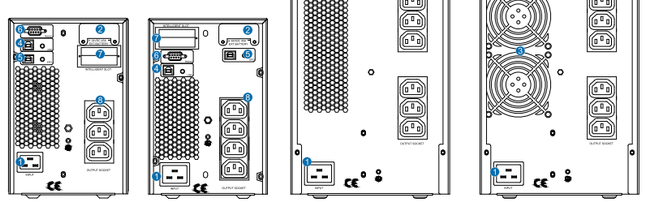
Features

- High frequency on-line double conversion technology
- DSP (Digital signal processing) control technology
- Active power factor correction (APFC), input power factor up to 0.99
- Output power factor 0.9/0.1
- Wide input voltage range (110 V ~ 300 Vac) and frequency range (40 ~ 70 Hz)
- Auto sensing frequency
- 50 / 60 Hz frequency conversion
- Cold start
- Rear ventilation design and variable speed fan
- Effective software and hardware protection
- Quick and stable charging, 90% capacity restored in 3h (standard model UPS)
- Linear derating in low voltage input reducing battery discharging times
- Settable delayed start when power is restored
- Advanced battery management (ABM)
- Multiple functions settable via LCD: output voltage, EOD, auto-start, bypass mode
- Multi-platform communications: RS232 (standard), USB / RS485 / SNMP / dry contacts (optional)
- Optional USB, RS485 card, AS400 dry contacts, SNMP card, SMS alarms, EPO function

Details

1. AC input socket
2. Battery connector (Optional)
3. Fan
4. USB (Optional)
5. EPO (Optional)
6. RS232
7. Intelligent slot (Optional)
8. Output sockets

Optional outlets



1kVAS　2kVAS (48V)　2kVAS (72V)　3kVAS

Technical specifications

MODEL	APO 1000		APO 2000		APO 3000	
Capacity	1 kVA / 1 kW		2 kVA / 2 kW		3 kVA / 3 kW	
INPUT						
Rated voltage	208 / 220 / 230 / 240 Vac					
Voltage range	110 ~ 176 Vac (linear derating between 50% and 100% load); 176 ~ 280 Vac (no derating); 280 ~ 300 Vac (derating 50%)					
Frequency	40 ~ 70 Hz (auto-sense)					
Power factor	≥ 0.99					
Bypass voltage range	-25% ~ +15% (settable)					
Total harmonic distortion (THDi)	≤ 6%					
OUTPUT						
Voltage	208 / 220 / 230 / 240 Vac (settable via LCD)					
Voltage regulation	± 1%					
Frequency	45 ~ 55 Hz or 55 ~ 65 Hz (synchronized range); 50 / 60 Hz±0.1 Hz (battery mode)					
Waveform	Sinusoidal					
Power factor	0.9/0.1					
Total harmonic distortion (THDv)	≤ 2% (linear load), ≤ 5% (non-linear load)					
Crest factor	3:1					
Overload	105% ~ 125% for 1 min, 125% ~ 150% for 30 s, > 150% for 300 ms					
BATTERIES						
DC voltage	24V (S)	24V (H)	36V (S)	36V (H)	48V (S)	48V (H)	72V (S)	72V (H)	72V (S)	72V (H)	96V (S)	96V (H)
Inbuilt battery	2x9Ah	/	3x7Ah	/	4x9Ah	/	6x7Ah	/	6x9Ah	/	8x7Ah	/
Charging current (max.)	Standard model:1A, Long time model: 6A											
Recharge time	Standard model: 90% capacity restored in 3 hours; Long time model: depend on the capacity of battery											
SYSTEM												
Efficiency	≥ 90% (Mains mode)				≥ 91% (Mains mode)				≥ 92% (Mains mode)			
	≥ 85% (Battery mode)				≥ 86% (Battery mode)				≥ 87% (Battery mode)			
	≥ 95% (ECO mode)				≥ 96% (ECO mode)				≥ 97% (ECO mode)			
Transfer time	Mains mode to battery mode: 0 ms, Inverter mode to bypass mode: 4 ms (typical)											
Protections	Short-circuit, overload, overtemperature, battery discharge protection and fan testing protection											
Communications	RS232 (standard), USB / RS485 / dry contacts / SNMP (optional)											
Display	LCD + LED											
Standards	EN 62040-1, EN 62040-2, EN 61000-3-2, EN 61000-3-3, 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, IEC 61000-2-2, IEC 62040-2, IEC 62040-1, IEC 62040-3											
OTHERS												
Operating temperature	0℃ ~ 40℃											
Storage temperature	−25℃ ~ 55℃ (without batteries)											
Relative humidity	0 ~ 95% (non-condensing)											
Altitude	≤ 1000 m, derating 1% for each additional 100 m											
IP rating	IP 20											
Noise level at 1m	≤ 50 dB											
Dimensions (W×D×H) (mm)	144 ×312 ×216	144 ×336 ×214	144 ×371 ×216	144 ×336 ×216	144 ×417 ×216	191 ×418 ×335	191 ×419 ×335	191 ×418 ×335	191 ×419 ×335	191 ×418 ×335	191 ×419 ×335	191 ×418 ×335
Packaged dimensions (W×D×H)	230 ×402 ×315	232 ×417 ×318	230 ×460 ×315	232 ×417 ×318	230 ×506 ×315	277×500×435		318 ×533 ×417	277×500×435			
Net weight (kg)	11	6	12.8	6	16.4	10.5	23.1	10.5	24.3	11	29.4	11
Gross weight (kg)	11.3	6.9	14	7	17.8	11.6	24.7	12	25.9	12.5	31.1	12.5

- Derate capacity to 70% in CUCF mode and to 90% when the output voltage is adjusted to 208 Vac.
- S means standard model, H means long time model
- All specifications are subject to change without notice.
- Custom-made specifications are acceptable.

Alpha Pro RT

1kVA ~ 3kVA
PF 0.9 (1:1)

Features

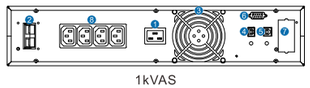
- High frequency on-line double conversion technology
- DSP (Digital signal processing) control technology
- Active power factor correction (APFC), input power factor up to 0.99
- Output power factor 0.9/0.1
- Wide input voltage range (110 V ~ 300 Vac) and frequency range (40 ~ 70 Hz)
- Auto sensing frequency
- 50 / 60 Hz frequency conversion
- Cold start
- Rear ventilation design and variable speed fan
- Effective software and hardware protection
- Quick and stable charging, 90% capacity restored in 3h (standard model UPS)
- Linear derating in low voltage input reducing battery discharging times
- Settable delayed start when power is restored
- Hot-swappable battery
- Advanced battery management (ABM)
- Multiple functions settable via LCD: output voltage, EOD, auto-start, bypass mode
- Multi-platform communications: RS232 (standard), USB / RS485 / SNMP / dry contacts (optional)

Available Options

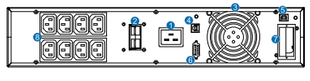
- Optional USB, RS485 card, AS400 dry contacts, SNMP card, SMS alarms, EPO function, MBS (External maintenance bypass switch)

Details

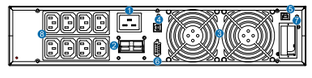
1. AC input socket
2. Battery connector (Optional)
3. Fan
4. USB (Optional)
5. EPO (Optional)
6. RS232
7. Intelligent slot (Optional)
8. Output sockets



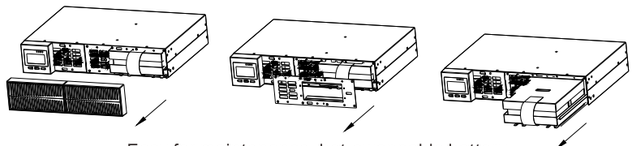
1kVAS



2kVAS



3kVAS



Easy for maintenance, hot-swappable battery

Technical specifications

MODEL	APO 1000RT	APO 2000RT	APO 3000RT
Capacity	1 kVA / 1 kW	2 kVA / 2 kW	3 kVA / 3 kW
INPUT			
Rated voltage	208 V / 220 V / 230 V / 240 Vac		
Voltage range	110 ~ 176 Vac (linear derating between 50% and 100% load); 176 ~ 280 Vac (no derating); 280 ~ 300 Vac (derating 50%)		
Frequency	40 ~ 70 Hz (auto-sense)		
Power factor	≥ 0.99		
Bypass voltage	-25% ~ +15% (settable)		
Total harmonic distortion (THDi)	≤ 6%		
OUTPUT			
Voltage	208 V / 220 V / 230 V / 240 Vac (settable via LCD)		
Voltage regulation	± 1%		
Frequency	45 ~ 55 Hz or 55 ~ 65 Hz (synchronized range); 50 / 60 Hz ± 0.1 Hz (battery mode)		
Waveform	Sinusoidal		
Power factor	0.9/0.1		
Total harmonic distortion (THDv)	≤ 2% (linear load); ≤ 5% (non-linear load)		
Crest factor	3:1		
Overload	105% ~ 125% for 1 min, 125% ~ 150% for 30 s, > 150% for 300 ms		
BATTERIES			
DC voltage	24V (S) / 24V (H) / 36V (S) / 36V (H) / 48V (S) / 48V (H) / 72V (S) / 72V (H) / 72V (S) / 72V (H) / 96V (S) / 96V (H)		
Inbuilt battery	2x9Ah / 3x7Ah / 4x9Ah / 6x7Ah / 6x9Ah / 8x7Ah		
Charging current (max.)	Standard model:1A, Long time model: 6A		
Recharge time	Standard model: 90% capacity restored in 3 hours; Long time model: depend on the capacity of battery		
SYSTEM			
Efficiency	≥ 90% (Mains mode) ≥ 85% (Battery mode) ≥ 95% (ECO mode)	≥ 91% (Mains mode) ≥ 86% (Battery mode) ≥ 96% (ECO mode)	≥ 92% (Mains mode) ≥ 87% (Battery mode) ≥ 97% (ECO mode)
Transfer time	Mains mode to battery mode: 0 ms, Inverter mode to bypass mode: 4 ms (typical)		
Protections	Short-circuit, overload, overtemperature, battery discharge protection and fan testing protection		
Communications	RS232 (standard), USB / RS485 / dry contacts / SNMP (optional)		
Display	LCD + LED		
Standards	EN 62040-1, EN 62040-2, EN 61000-3-2, EN 61000-3-3, 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, IEC 61000-2-2, IEC 62040-2, IEC 62040-1		
OTHERS			
Operating temperature	0℃ ~ 40℃		
Storage temperature	−25℃ ~ 55℃ (without batteries)		
Relative humidity	0 ~ 95% (non-condensing)		
Altitude	≤ 1000 m, derating 1% for each additional 100 m		
IP rating	IP 20		
Noise level at 1m	≤ 50 dB		
Dimensions (W×D×H) (mm)	440×338×88	440×468×88	440×430×88	440×468×88	440×430×88	440×468×88	440×560×88	440×468×88	440×560×88	440×468×88(UPS) 440x468x88(BAT)		440×468×88
Packaged dimensions (W×D×H)(mm)	545×428×194	545×592×198	545×560×201	545×592×201	545×560×201	545×782×201	545×690×201	545×592×201	545×690×201	545×592×198	592x545x198 (UPS) 597x545x198 (BAT)	545×592×201
Net weight(kg)	10.6	7.6	15.5	7.6	18.7	9.7	25.6	9.7	26.8	10	9.45(UPS) 27.2(BAT)	10.1
Gross weight(kg)	11.3	11	18.6	11.1	21.8	14	25.8	13.2	29.7	13.5	12.97(UPS) 30.2(BAT)	13.6

- Derate capacity to 70% in CUCF mode and to 90% when the output voltage is adjusted to 208 Vac.
- S means standard model, H means long time model.
- All specifications are subject to change without notice.
- Custom-made specifications are acceptable.

Alpha

6kVA ~ 10kVA
PF 1.0 (1:1)

Features

- High frequency on-line double conversion technology
- Advanced DSP and 3-level technology
- Output power factor 1.0
- Active power factor correction (APFC), input power factor up to 0.99
- High efficiency 95% (up to 98% in ECO mode)
- Advanced digital parallel technology
- Wide input voltage range (110 ~ 288 Vac) and frequency range (40 ~ 70 Hz)
- 50 / 60 Hz frequency auto sensing
- Two modes of frequency conversion: 50 Hz input / 60 Hz output or 60 Hz input / 50 Hz output
- Dual-input design, supporting independent bypass
- Flexible battery configuration (settable 16 - 20 pcs batteries)
- Digitally controlled charger
- High charging current available (Max. 12 A)
- Charging voltage and current configured by demands
- Linear derating in low voltage input reducing battery discharging times, extending the service life of battery
- Intelligent battery management, automatic floating / equalizing charge control, charger dormancy control, increasing battery life by 50%
- Ability to switch on the UPS with batteries
- Settable delayed start time when mains power is restored, reducing the impact on power grid or generator
- Fan speed varies intelligently with temperature, reducing noise and extending its service life
- Equipped with self-aging function
- Compact internal layout, miniaturized the complete unit for small footprint
- LCD+LED display, multi-functional keys operation, friendly human-machine interface
- Powerful background software for parameters configuration
- Advanced multi-platform communications: RS232, USB, RS485, SNMP and dry contacts communication interfaces
- Effective software and hardware protection function, robust self-diagnostic function, and abundant event logs for check

Available Options

- RS232 and smart card slot included
- Optional parallel function, battery temperature compensation, SNMP card, USB, RS485 card, dry contacts, EMD, and SMS alarms

Details

1. RS232
2. EPO
3. Parallel Port (optional)
4. USB (optional)
5. Temperature Detection (optional)
6. Intelligent Slot
7. Reserved: for manual bypass or battery breaker or outlets etc.
8. Fans
9. Bypass Breaker
10. Input Breaker
11. GND
12. Terminals and Cover

6/10 kVA (H)

6/10 kVA (S)

Technical specifications

MODEL	ALP 6000	ALP 10000
Capacity	**6 kVA / 6 kW**	**10 kVA / 10 kW**
INPUT		
Input wiring	Single-phase three-wire (1Φ + N + PE)	
Rated voltage	208 / 220 / 230 / 240 Vac	
Voltage range	110 ~ 176 Vac (linear derating between 50% and 100% load); 176 ~ 288 Vac (no derating)	
Rated frequency	50 / 60 Hz (auto-sensing)	
Frequency range	40 ~ 70 Hz	
Power factor	≥ 0.99	
Bypass voltage range	- 40% ~ +15% (settable)	
Total harmonic distortion (THDi)	≤ 5%	
OUTPUT		
Output wiring	Single-phase three-wire (1Φ + N + PE)	
Rated voltage	208 (PF=0.9) / 220 / 230 / 240 Vac	
Voltage regulation	± 1%	
Frequency	Synchronized to bypass in mains mode; 50 / 60 Hz±0.1% Hz in battery mode	
Waveform	Sinusoidal	
Power factor	1	
Total harmonic distortion (THDv)	≤ 1% (linear load); ≤ 4% (non-linear load)	
Crest factor	3:1	
Overload	105% ~ 110% for 10 min, 110% ~ 125% for 1 min, 126% ~ 150% for 30 s	
BATTERIES		
DC voltage	192 Vdc (192 ~ 240 Vdc settable)	
Number of battery	16 pcs (16 ~ 20 settable)	
Inbuilt battery (standard model)	12 V / 7 Ah × 16	12 V / 9 Ah×16
Charging current	Standard model: 1 A; Long time model: 5 A (default),1 ~ 5 A settable; 12 A (optional)	
Recharge time	Standard model: 90% capacity restored in 8 hours; Long time model: depend on the capacity of battery	
SYSTEM		
Efficiency	≥ 94% at 100% load, max. 95% at 60% load, ≥ 98% in ECO mode	
Transfer time	0 ms	
Protections	Short-circuit, overload, overtemperature, battery low voltage, overvoltage, undervoltage and fan failure	
Max. number of parallel connections	4	
Communications	RS232 (standard), USB / RS485 / dry contacts / SNMP / battery temperature compensation (optional)	
Display	LCD + LED	
OTHERS		
Operating temperature	0℃ ~ 40℃	
Storage temperature	-25℃ ~ 55℃ (without battery)	
Relative humidity	0 ~ 95% (non-condensing)	
Altitude	≤ 1000 m, derating 1% for each additional 100 m	
IP rating	IP 20	
Noise level at 1 m	≤ 55 dB	≤ 58 dB
Dimensions (W × D × H) (mm)	191 × 465 × 711 (S) , 191 × 465 × 350 (H)	191 × 495 × 711 (S), 191 × 495 × 350 (H)
Packaged dimensions (W × D × H) (mm)	310 × 654 × 941 (S), 318 × 595 × 475 (H)	310 × 685 × 941 (S), 318 × 617 × 475 (H)
Net weight (kg)	53 (S) , 14.5 (H)	62 (S), 16.5 (H)
Gross weight (kg)	61 (S), 16 (H)	70 (S), 18 (H)

- S means standard model; H means long time model.
- All specifications are subject to change without notice.

Alpha RT

6kVA ~ 10kVA

PF 1.0 (1:1)

Features

- High frequency on-line double conversion technology
- Advanced DSP and 3-level technology
- Output power factor 1.0
- Active power factor correction (APFC), input power factor up to 0.99
- High efficiency 95% (up to 98% in ECO mode)
- Advanced digital parallel technology
- Wide input voltage range (110 ~ 288 Vac) and frequency range (40 ~ 70 Hz)
- 50 / 60 Hz frequency auto sensing
- Two modes of frequency conversion: 50 Hz input / 60 Hz output or 60 Hz input / 50 Hz output
- Hot-swappable battery
- Flexible battery configuration (settable 16 - 20 pcs batteries)
- Digitally controlled charger
- High charging current available (Max. 12 A)
- Charging voltage and current configured by demands
- Linear derating in low voltage input reducing battery discharging times, extending the service life of battery
- Intelligent battery management, automatic floating / equalizing charge control, charger dormancy control, increasing battery life by 50%
- Ability to switch on the UPS with batteries
- Settable delayed start time when mains power is restored, reducing the impact on power grid or generator
- Fan speed varies intelligently with temperature, reducing noise and extending its service life
- Equipped with self-aging function
- Compact internal layout, miniaturized the complete unit for small footprint
- LCD+LED display, multi-functional keys operation, friendly human-machine interface
- Powerful background software for parameters configuration
- Advanced multi-platform communications: RS232, USB, RS485, SNMP and dry contacts communication interfaces
- Effective software and hardware protection function, robust self-diagnostic function, and abundant event log for check

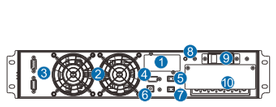
Available Options

- RS232 and intelligent card slot included
- Optional parallel function, battery temperature compensation, SNMP card, USB, RS485 card, dry contacts, EMD, and SMS alarms

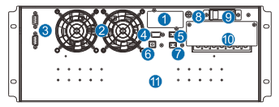
Details

1. SNMP (optional)
2. Fans
3. Parallel Port (optional)
4. RS232
5. EPO
6. USB (optional)
7. Temperature Compensation (optional)
8. GND
9. Bypass Breaker
10. Terminal and Cover
11. Battery Pack

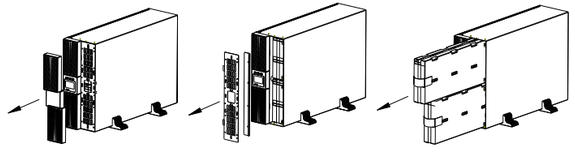
Display panel can be rotated



6/10KVA(H)



6/10KVA(S)



Easy for maintenance, hot-swappable battery

Technical specifications

MODEL	ALP 6000RT	ALP 10000RT
Capacity	**6 kVA / 6 kW**	**10 kVA / 10 kW**
INPUT		
Input wiring	Single-phase three-wire (1Φ + N + PE)	
Rated voltage	208 / 220 / 230 / 240 Vac	
Voltage range	110 ~ 176 Vac (linear derating between 50% and 100% load); 176 ~ 288 Vac (no derating)	
Rated frequency	50 / 60 Hz (auto-sensing)	
Frequency range	40 ~ 70 Hz	
Power factor	≥ 0.99	
Bypass voltage range	- 40% ~ +15% (settable)	
Total harmonic distortion (THDi)	≤ 5%	
OUTPUT		
Output wiring	Single-phase (L-N)	
Rated voltage	208 (PF=0.9) / 220 / 230 / 240 Vac	
Voltage regulation	± 1%	
Frequency	Synchronized to bypass in mains mode; 50 / 60 Hz ± 0.1% Hz in battery mode	
Waveform	Sinusoidal	
Power factor	1	
Total harmonic distortion (THDv)	≤ 1% (linear load); ≤ 4% (non-linear load)	
Crest factor	3:1	
Overload	105% ~ 110% for 10 min, 110% ~ 125% for 1 min,126% ~ 150% for 30 s	
BATTERIES		
DC voltage	192 Vdc (192~240 Vdc settable)	
Number of battery	16 pcs (16 ~ 20 settable)	
Inbuilt battery (standard model)	12 V / 7 Ah × 16	12 V / 9 Ah × 16
Charging current	Standard model: 1 A; Long time model: 5 A (default),1 ~ 5 A settable; 12 A (optional)	
Recharge time	Standard model: 90% capacity restored in 8 hours; Long time model: depend on the capacity of battery	
SYSTEM		
Efficiency	≥ 94% at 100% load, max. 94.5% at 60% load, ≥ 98% in ECO mode	
Transfer time	0 ms	
Protections	Short-circuit, overload, overtemperature, battery low voltage, overvoltage, undervoltage and fan failure	
Max. number of parallel connections	4	
Communications	RS232 (standard), USB / RS485 / dry contacts / SNMP / battery temperature compensation (optional)	
Display	LCD + LED	
OTHERS		
Operating temperature	0℃ ~ 40℃	
Storage temperature	-25℃ ~ 55℃ (without battery)	
Relative humidity	0 ~ 95% (non-condensing)	
Altitude	≤ 1000 m, derating 1% for each additional 100 m	
IP rating	IP 20	
Noise level at 1 m	≤ 55 dB	≤ 58 dB
Dimensions (W × D × H) (mm)	440 × 660 × 176 (S) 440 × 580 × 88 (H)	
Packaged dimensions (W × D × H) (mm)	554 × 792 × 418 (S) 514 × 696 × 168 (H)	
Net weight (kg)	58 (S), 12 (H)	63 (S), 14 (H)
Gross weight (kg)	68 (S), 14 (H)	73 (S), 16 (H)

- S means standard model; H means long time model.
- All specifications are subject to change without notice.

Alpha

10kVA ~ 20kVA
PF1.0 (3:1 / 1:1)

Features

- High frequency on-line double conversion technology
- Advanced DSP and 3-level technology
- Output power factor 1.0
- Active power factor correction (APFC), input power factor up to 0.99
- High efficiency 95% (up to 98% in ECO mode)
- Advanced digital parallel technology
- 3:1 to 1:1 model settable
- Wide input voltage range (190 ~ 499 Vac) and frequency range (40 ~ 70 Hz)
- 50 / 60 Hz frequency auto sensing
- Two modes of frequency conversion: 50 Hz input / 60 Hz output or 60 Hz input / 50 Hz output
- Dual-input design, supporting independent bypass
- Flexible battery configuration (settable 16 - 20 pcs batteries)
- Digitally controlled charger
- High charging current available (Max. 10 A)
- Charging voltage and current configured by demands
- Linear derating in low voltage input reducing battery discharging times, extending the service life of battery
- Intelligent battery management, automatic floating / equalizing charge control, charger dormancy control, increasing battery life by 50%
- Ability to switch on the UPS with batteries
- Fan speed varies intelligently with temperature, reducing noise and extending its service life
- Equipped with self-aging function
- Compact internal layout, miniaturized the complete unit for small footprint
- LCD+LED display, multi-functional keys operation, friendly human-machine interface
- Powerful background software for parameters configuration
- Advanced multi-platform communications: RS232, USB, RS485, SNMP and dry contacts communication interfaces
- Effective software and hardware protection function, robust self-diagnostic function, and abundant event log for check

Available Options

- RS232 and intelligent card slot included
- Optional parallel function, battery temperature compensation, SNMP card, USB, RS485 card, dry contacts, EMD, and SMS alarms

Details

1. RS232
2. EPO
3. Parallel Port (optional)
4. USB (optional)
5. Temperature Detection (optional)
6. Intelligent Slot
7. Reserved: for manual bypass or battery breaker or outlets etc.
8. Fans
9. Bypass Breaker
10. Input Breaker
11. GND
12. Terminals and Cover

10 kVA (H) 15/20 kVA (H) 10 kVA (S)

Technical specifications

MODEL	ALP 10 (3:1)	ALP 15 (3:1)	ALP 20 (3:1)
Capacity	**10 kVA / 10 kW**	**15 kVA / 15 kW**	**20 kVA / 20 kW**
INPUT			
Input wiring	Three-phase five-wire (3Φ + N + PE)		
Rated voltage	380 / 400 / 415 Vac		
Voltage range	190 ~ 305 Vac (linear derating between 50% and 100% load); 305 ~ 499 Vac (no derating)		
Rated frequency	50 / 60 Hz (auto-sensing)		
Frequency range	40 ~ 70 Hz		
Power factor	≥ 0.99		
Bypass voltage range	- 40% ~ +15% (settable)		
Total harmonic distortion (THDi)	≤ 5%		
OUTPUT			
Output wiring	Single-phase three-wire (1Φ + N + PE)		
Rated voltage	208 (PF=0.9) / 220 / 230 / 240 Vac		
Voltage regulation	± 1%		
Frequency	Synchronized to bypass in mains mode; 50 / 60 Hz ± 0.1% Hz in battery mode		
Waveform	Sinusoidal		
Power factor	1		
Total harmonic distortion (THDv)	≤ 1% (linear load); ≤ 3% (non-linear load)		
Crest factor	3:1		
Overload	105% ~ 110% for 10 min, 110% ~ 125% for 1 min,126% ~ 150% for 30 s		
BATTERIES			
DC voltage	192 Vdc (192 ~ 240 Vdc settable)		
Number of battery	16 pcs (16 ~ 20 settable)		
Inbuilt battery (standard model)	12 V / 9 Ah×16	/	/
Charging current	Standard model: 1 A; Long time model: 5 A (default),1 ~ 5 A settable; 10 A (optional)		
Recharge time	Standard model: 90% capacity restored in 8 hours; Long time model: depend on the capacity of battery		
SYSTEM			
Efficiency	≥ 94% at 100% load, max. 95% at 60% load, ≥ 98% in ECO mode		
Transfer time	0 ms		
Protections	Short-circuit, overload, overtemperature, battery low voltage, overvoltage, undervoltage and fan failure		
Max. number of parallel connections	4		
Communications	RS232 (standard), USB / RS485 / dry contacts / SNMP / battery temperature compensation (optional)		
Display	LCD + LED		
OTHERS			
Operating temperature	0℃ ~ 40℃		
Storage temperature	-25℃ ~ 55℃ (without battery)		
Relative humidity	0 ~ 95% (non-condensing)		
Altitude	≤ 1000 m, derating 1% for each additional 100 m		
IP rating	IP 20		
Noise level at 1 m	≤ 58 dB		
Dimensions (W × D × H) (mm)	191 × 495 × 711 (S) 191 × 495 × 350 (H)	191 × 495 × 515 (H)	
Packaged dimensions (W × D × H) (mm)	310 × 685 × 941 (S) 318 × 617 × 475 (H)	285 × 593 × 618 (H)	
Net weight (kg)	64 (S) 18.5 (H)	26.5 (H)	
Gross weight (kg)	72 (S) 20 (H)	28 (H)	

- S means standard model; H means long time model.
- All specifications are subject to change without notice.

Alpha RT

10kVA ~ 20kVA
PF 1.0 (3:1 / 1:1)

Features

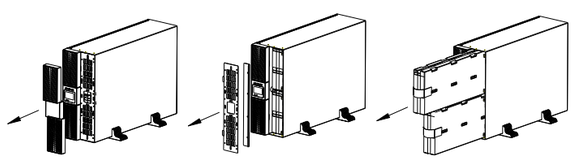
- High frequency on-line double conversion technology
- Advanced DSP and 3-level technology
- Output power factor 1.0
- Active power factor correction (APFC), input power factor up to 0.99
- High efficiency 95% (up to 98% in ECO mode)
- Advanced digital parallel technology
- 3:1 to 1:1 model settable
- Wide input voltage range (190 ~ 478 Vac) and frequency range (40 ~ 70 Hz)
- 50 / 60 Hz frequency auto sensing
- Two modes of frequency conversion: 50 Hz input / 60 Hz output or 60 Hz input / 50 Hz output
- Dual-input design, supporting independent bypass
- Hot-swappable battery (10 kVA)
- Flexible battery configuration (settable 16 - 20 pcs batteries)
- Digitally controlled charger
- High charging current available (Max. 10 A)
- Charging voltage and current configured by demands
- Linear derating in low voltage input reducing battery discharging times, extending the service life of battery
- Intelligent battery management, automatic floating / equalizing charge control, charger dormancy control, increasing battery life by 50%
- Ability to switch on the UPS with batteries
- Settable delayed start time when mains power is restored, reducing the impact on power grid or generator
- Fan speed varies intelligently with temperature, reducing noise and extending its service life
- Equipped with self-aging function
- Compact internal layout, miniaturized the complete unit for small footprint
- LCD+LED display, multi-functional keys operation, friendly human-machine interface
- Powerful background software for parameters configuration
- Advanced multi-platform communications: RS232, USB, RS485, SNMP and dry contacts communication interfaces
- Effective software and hardware protection function, robust self-diagnostic function, and abundant event log for check

Available Options

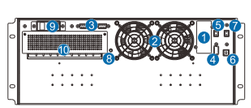
- RS232 and intelligent card slot included
- Optional parallel function, battery temperature compensation, SNMP card, USB, RS485 card, dry contacts, EMD, and SMS alarms

Details

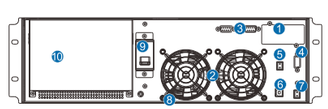
1. SNMP (optional)
2. Fans
3. Parallel Port (optional)
4. RS232
5. EPO
6. USB (optional)
7. Temperature Compensation (optional)
8. GND
9. Bypass Breaker
10. Terminal and Cover



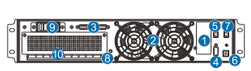
Easy for maintenance, hot-swappable battery (10 kVA)



10 kVA (S) (3:1)



15/20 kVA (H) (3:1)



10 kVA (H) (3:1)

Technical specifications

MODEL	ALP 10RT (3:1)	ALP 15RT (3:1)	ALP 20RT (3:1)
Capacity	**10 kVA / 10 kW**	**15 kVA / 15 kW**	**20 kVA / 20 kW**
INPUT			
Input wiring	Three-phase five-wire (3Φ + N + PE)		
Rated voltage	380 / 400 / 415 Vac		
Voltage range	190 ~ 304 Vac (linear derating between 50% and 100% load); 304 ~ 478 Vac (no derating)		
Rated frequency	50 / 60 Hz (auto-sensing)		
Frequency range	40 ~ 70 Hz		
Power factor	≥ 0.99		
Bypass voltage range	- 40% ~ +15% (settable)		
Total harmonic distortion (THDi)	≤ 5%		
OUTPUT			
Output wiring	Single-phase (L-N)		
Rated voltage	208 (PF=0.9) / 220 / 230 / 240 Vac		
Voltage regulation	± 1%		
Frequency	Synchronized to bypass in mains mode; 50 / 60 Hz ± 0.1% Hz in battery mode		
Waveform	Sinusoidal		
Power factor	1		
Total harmonic distortion (THDv)	≤ 1% (linear load); ≤ 3% (non-linear load)		
Crest factor	3:1		
Overload	105% ~ 110% for 10 min, 110% ~ 125% for 1 min,126% ~ 150% for 30 s		
BATTERIES			
DC voltage	192 Vdc (192 ~ 240 Vdc settable)		
Number of battery	16 pcs (16 ~ 20 settable)		
Inbuilt battery (standard model)	12 V / 9 Ah × 16	/	/
Charging current	Standard model: 1 A; Long time model: 5 A (default),1 ~ 5 A settable; 10 A (optional)		
Recharge time	Standard model: 90% capacity restored in 8 hours; Long time model: depend on the capacity of battery		
SYSTEM			
Efficiency	≥ 94% at 100% load, max. 95% at 60% load, ≥ 98% in ECO mode		
Transfer time	0 ms		
Protections	Short-circuit, overload, overtemperature, battery low voltage, overvoltage, undervoltage and fan failure		
Max. number of parallel connections	4		
Communications	RS232 (standard), USB / RS485 / dry contacts / SNMP / battery temperature compensation (optional)		
Display	LCD + LED		
OTHERS			
Operating temperature	0℃ ~ 40℃		
Storage temperature	-25℃ ~ 55℃ (without battery)		
Relative humidity	0 ~ 95% (non-condensing)		
Altitude	≤ 1000 m, derating 1% for each additional 100 m		
IP rating	IP 20		
Noise level at 1 m	≤ 58 dB		
Dimensions (W × D × H) (mm)	440 × 660 × 176 (S) 440 × 650 × 88 (H)	440× 780 ×132	
Packaged dimensions (W × D × H) (mm)	554 x 792 x 418 (S) 514 x 696 x 168 (H)	554× 792 ×400	
Net weight (kg)	67 (S), 17 (H)	25.5	
Gross weight (kg)	77 (S), 19 (H)	28	

- S means standard model; H means long time model.
- All specifications are subject to change without notice.

Aegis

10kVA ~ 60kVA
PF 1.0 (3:3)

Features

- High frequency on-line double conversion technology
- Advanced dual-core DSP control technology and 3-level technology
- Active power factor correction (APFC), input power factor up to 0.99
- System efficiency is improved to 95%, energy saving rate is doubled
- Output power factor 1.0
- Dual input design, supporting independent bypass
- Advanced digital and parallel technology, providing higher reliability than single system
- Wide input voltage range
- 50 / 60 Hz auto-sensing frequency
- 50 / 60 Hz frequency conversion mode
- Work efficiency up to 98% in ECO mode
- Fan speed varies intelligently with load, reducing noise and extending its service life
- Conformal coating technology to make UPS operate in harsh environment for a long time
- Flexible battery configuration setting, selectable battery numbers: 32~ 40 pcs
- Digitally controlled charger
- Ability to switch on the UPS by battery in the absence of mains power (Cold start)
- Zero switching time for UPS power supply mode when the mains power is unstable, ensuring the output is uninterrupted
- Compact internal layout, small footprint
- 5 inches LCD colorful touch screen, friendly human & machine interface
- Powerful background software for parameters configuration and online upgrade
- Advanced multi-platform communication for UPS monitoring: RS232, USB, RS485, dry contacts, SNMP card, Wi-Fi card and GPRS card
- Linear derating in low voltage input, reducing battery discharging times, extending the service life of battery
- Intelligent battery management, automatic equalized and float charging control, charger dormancy control, improving the reliability of charger and extending the battery life
- Effective hardware and software protection, robust self-diagnosis function, abundant event log for future check
- Standard RS232, USB, RS485, EPO, Dry contacts, Parallel port
- Optional SNMP card, WI-FI card, GPRS card, SMS alarms

Technical specifications

MODEL	AGS 10	AGS 15	AGS 20	AGS 30	AGS 40	AGS 60
Power rating	10 kVA / 10 kW	15 kVA / 15 kW	20 kVA / 20 kW	30 kVA / 30 kW	40 kVA / 40 kW	60 kVA / 60 kW
INPUT						
Phase	3:3/3:1/1:1					
Rated voltage	220/230/240Vac (L-N) 380/400/415Vac (3Φ + N + PE)					
Voltage range	132~275Vac (L-N) 228~478Vac					
Rated frequency	50 / 60 Hz					
Frequency range	40 ~ 70 Hz					
Power factor	> 0.99					
Bypass voltage range	Selectable, default -20%~+15% Up limited: +10%, +15%, +20%, +25%; Down limited: -10%, -15%, -20%, -30%, -40%					
Bypass frequency range	Selectable, ±1Hz, ±3Hz, ±5Hz					
Input current THDi	<3% (linear load)					
Bypass overload	125%: long term operation; 125%~130%: 10min; 130%~150%: 1min; 150%~400%: 1s; >400%, less than 200ms					
OUTPUT						
Rated voltage	220/230/240Vac (L-N) 380/400/415Vac (3Φ + N + PE)					
Voltage precision	±1% (linear load)					
Frequency	Synchronized with utility in mains mode, 50/60 Hz ± 0.1 Hz in battery mode					
Waveform	Sinusoidal					
Power factor	1					
Total harmonic distortion (THDv)	<1% (full linear load); <3% (full non-linear load according to IEC/EN62040-3)					
Crest factor	3:1					
Overload	<110%, 60min; 110%~125%, 10min; 125%~150%,1min; >150%, 200ms					
BATTERIES						
DC voltage	Long time model: ±240VDC (selectable, 32 - 40pcs)					
Standard model battery voltage	(10+10) x 9AH	(20+20) x 7AH	(20+20) x 9AH	(15+15) x 9AH x 2 strings	(20+20) x 9AH x 2 strings	/
Charging current	10A Max.				15A Max.	20A Max.
Charger voltage precision	1%					
SYSTEM						
Display	5 inches touch screen					
Efficiency	95% Max.				96% Max.	
Transfer time	0 ms					
Max. number of parallel connections	4					
Interface	Standard: RS232, RS485, USB, battery cold start Option: programmable dry contact, SNMP, parallel kit					
ENVIRONMENT						
Operating temperature	0℃ ~ 40℃					
Storage temperature	-40℃ ~ 70℃					
Relative humidity	0 ~ 95% (non-condensing)					
Altitude	<1000m, load derated 1% per 100m from 1000 ~ 2000m					
Noise level at 1 m	58dB Max.			62dB Max.		
OTHERS						
Dimensions (W × D × H) (mm)	250 x 720 x 560 (S) 250 x 720 x 560 (H)	250 x 800 x 700 (S) 250 x 720 x 560 (H)		250 x 840 x 930 (S) 250 x 840 x 650 (H)	350 x 800 x 1280(S) 250 x 720 x 560 (H)	250 x 790 x 560 (H)
Packaged dimensions (W × D × H) (mm)	350 x 800 x 722 (S) 350 x 800 x 718 (H)	350 x 900 x 862 (S) 350 x 800 x 718 (H)		350 x 950 x 1102 (S) 350 x 980 x 810 (H)	450 x 900 x 1400 (S) 350 x 800 x 718 (H)	350 x 850 x 818 (H)
Net weight (kg)	82 (S) 31 (H)	131 (S) 33 (H)	145 (S) 33 (H)	215 (S) 42 (H)	300 (S) 42 (H)	48 (H)
Gross weight (kg)	93 (S) 40 (H)	142 (S) 42 (H)	156 (S) 42 (H)	227 (S) 52 (H)	310 (S) 52 (H)	58 (H)

- S means standard model, H means long time model.
- Derate capacity to 90% when the number of batteries is set to 32 pcs for 40kVA/60kVA model.
- Custom-made specifications are acceptable.
- All specifications are subject to change without notice.
- Derate capacity to 60% when used at 3:1.

Aegis RT

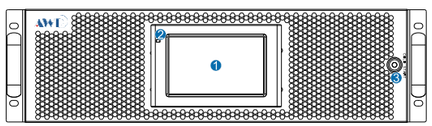
10kVA ~ 60kVA
PF 1.0 (3:3)

Features

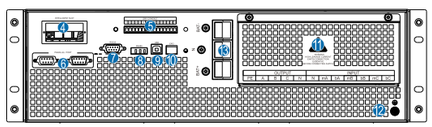
- High frequency on-line double conversion technology
- Advanced dual-core DSP control technology and 3-level technology
- Active power factor correction (APFC), input power factor up to 0.99
- System efficiency is improved to 96%, energy saving rate is doubled
- Output power factor 1.0
- Dual input design, supporting independent bypass
- Advanced digital and parallel technology, providing higher reliability than single system
- Wide input voltage range
- 50 / 60 Hz auto-sensing frequency
- 50 / 60 Hz frequency conversion mode
- Work efficiency up to 98% in ECO mode
- Fan speed varies intelligently with load, reducing noise and extending its service life
- Conformal coating technology to make UPS operate in harsh environment for a long time
- Flexible battery configuration setting, selectable battery numbers: 32~ 40 pcs
- Digitally controlled charger (Max.20 A)
- Ability to switch on the UPS by battery in the absence of mains power (Cold start)
- Zero switching time for UPS power supply mode when the mains power is unstable, ensuring the output is uninterrupted
- Compact internal layout, small footprint
- 5 inches LCD colorful touch screen, friendly human & machine interface
- Powerful background software for parameters configuration and online upgrade
- Advanced multi-platform communication for UPS monitoring: RS232, USB, RS485, dry contacts, SNMP card, Wi-Fi card and GPRS card
- Linear derating in low voltage input, reducing battery discharging times, extending the service life of battery
- Intelligent battery management, automatic equalized and float charging control, charger dormancy control, improving the reliability of charger and extending the battery life
- Effective hardware and software protection, robust self-diagnosis function, abundant event logs for future check
- Standard RS232, USB, RS485, EPO, Dry contacts, Parallel port
- Optional SNMP card, WI-FI card, GPRS card, SMS alarms

Details

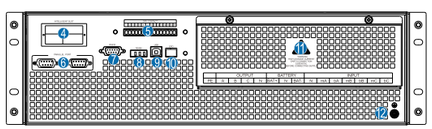
1. The touch screen LCD
2. LED
3. Battery start button
4. SNMP card (optional)
5. Dry contacts
6. Parallel port
7. RS232
8. RS485
9. USB
10. EPO
11. Terminal block
12. GND
13. Battery connectors for 30kVA



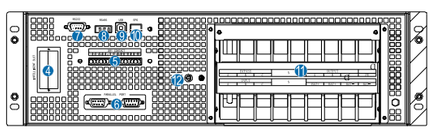
10-60kVA front appearance



30kVA back appearance



10-20kVA back appearance



40-60kVA back appearance

Technical specifications

MODEL	AGS 10RT	AGS 15RT	AGS 20RT	AGS 30RT	AGS 40RT	AGS 60RT
Capacity	10 kVA / 10 kW	15 kVA / 15 kW	20 kVA / 20 kW	30 kVA / 30 kW	40 kVA / 40 kW	60 kVA / 60 kW
INPUT						
Rated voltage	380 / 400 / 415 Vac (3Φ + N + PE)					
Voltage range	304~478 Vac, full load 228V~304 Vac, load decrease linearly according to the min phase voltage					
Rated frequency	50 / 60 Hz (auto-sensing)					
Frequency range	40 ~ 70 Hz					
Power factor	> 0.99					
Bypass voltage range	Selectable, default ~ 20% ~ +15% Up limited: +10%, +15%, +20%, +25%; Down limited: -10%, -15%, -20%, -30%, -40%					
Bypass frequency range	Selectable, ±1Hz, ±3Hz, ±5Hz					
Total harmonic distortion (THDi)	<3% (full linear load)					
Bypass overload	125%: long term operation; 125%~130%: 10min; 130%~150%: 1min; 150%~400%: 1s; >400%, less than 200ms					
OUTPUT						
Rated voltage	380 / 400 / 415 Vac (3Φ + N + PE)					
Voltage regulation	±1% (full linear load)					
Frequency	Synchronized with utility in mains mode, 50/60 Hz ± 0.1 Hz in battery mode					
Waveform	Sinusoidal					
Power factor	1					
Total harmonic distortion (THDv)	<1% (full linear load), <3% (full non-linear load according to IEC / EN62040-3)					
Crest factor	3:1					
Overload	<110%, 60min; 110%~125%,10min; 125%~150%,1min; >150%, 200ms					
BATTERIES						
DC voltage	±240VDC (selectable, 32 - 40pcs)					
Charging current	10A Max.				15 A	20 A
Charger voltage precision	1%					
Recharge time	Long time model: depend on the capacity of battery					
SYSTEM						
Efficiency	95% Max.				96% Max.	
Transfer time	0 ms					
Max. number of parallel connections	4					
Protections	Short-circuit, overload, overtemperature, battery low voltage, overvoltage, undervoltage and fan failure					
Communications	RS232, USB, RS485, EPO, Dry contacts, Parallel port (Standard) SNMP card, WI-FI card, GPRS card, SMS alarms (Optional)					
Display	LED + 5 inches LCD touch screen					
OTHERS						
Operating temperature	0℃ ~ 40℃					
Storage temperature	-40℃ ~ 70℃					
Relative humidity	0 ~ 95% (Non-condensing)					
Altitude	<1000m, load derated 1% per 100m from 1000 ~ 2000m					
IP rating	IP 20					
Noise level at 1 m	<60dB				<65dB	
Dimensions (W × D × H) (mm)	440 x 660 x 130			440 x 750 x 130	440 x 730 x 130	440 x 800 x 130
Packaged dimensions (W × D × H) (mm)	532 x 800 x 204			532 x 890 x 204	535 x 865 x 226	535 x 930 x 226
Net weight (kg)	22	24		29	33	39
Gross weight (kg)	24	26		31	36	42

- S means standard model, H means long time model.
- All specifications are subject to change without notice.
- Custom-made specifications are acceptable.

Aegis

40kVA ~ 200kVA

PF 1.0 (3:3)

Features

- High frequency on-line double conversion technology
- Advanced dual-core DSP control technology and 3-level technology
- Output power factor 1.0
- Active Power Factor Correction Technology, input power factor up to 0.99
- System efficiency improved to 96%, energy saving rate is doubled
- Working efficiency up to 99% in ECO mode
- Dual input design, supporting independent bypass
- Advanced digital and parallel technology, providing higher reliability than single system
- Wide input voltage range, 50 / 60 Hz auto-sensing frequency
- 50 Hz / 60 Hz frequency conversion mode
- Compact internal layout, small footprint
- Fan speed varies intelligently with temperature, reducing noise and extending its service life
- Features strong fault tolerance, one fan damaged takes 50% of the load, two fans damaged take 30% of the load
- Conformal coating technology to make UPS operate in harsh environment for a long time
- Effective hardware and software protection, robust self-diagnosis function, abundant event log for future check
- Linear downgrading in low voltage input reducing battery discharging times
- Flexible battery configuration setting, selectable battery numbers: 30 ~ 44 pcs
- Digitally controlled charger (Max. 48 A)
- Ability to switch on the UPS by battery in the absence of mains power (Cold start)
- Zero switching time for UPS power supply mode when the mains power is unstable, ensuring the output is uninterrupted
- Settable delayed start time when mains power is restored
- 5 inches LCD colorful touch screen, friendly human & machine interface
- Powerful background software for parameters configuration and online upgrade
- Advanced multi-platform communication for UPS monitoring: RS232, USB, RS485, RJ45, dry contacts, SNMP card, Wi-Fi card and GPRS card
- Intelligent battery management, automatic equalized and float charging control, charger dormancy control, improving the reliability of charger and extending the battery life
- Options and accessories: RS232, USB, RJ45, RS485, parallel, dry contacts, EPO and battery temperature compensation interfaces supplied; optional SNMP card, Wi-Fi card, GPRS card, battery temperature sensor, EMD detector and SMS alarms

Technical specifications

MODEL	AGS 40	AGS 60	AGS 80	AGS 100	AGS 120	AGS 160	AGS 200
Capacity	40kVA / 40 kW	60kVA / 60 kW	80kVA / 80 kW	100kVA / 100 kW	120 kVA / 120 kW	160 kVA / 160 kW	200kVA / 200 kW
INPUT							
Input wiring	Three-phase five-wire (3Φ + N + PE)						
Rated voltage	380 / 400 / 415 Vac						
Voltage range	304 ~ 485 Vac (no downgrading), 138 ~ 304 Vac (linear downgrading between 40% ~ 100% load)						
Rated frequency	50 / 60 Hz (auto-sensing)						
Frequency range	40 ~ 70 Hz						
Power factor	≥ 0.99						
Bypass voltage range	-60% ~ +20% (settable)						
Total harmonic distortion (THDi)	≤3%						
OUTPUT							
Output wiring	Three-phase five-wire (3Φ + N + PE)						
Rated voltage	380 / 400 / 415 Vac						
Voltage regulation	±1%						
Frequency	Synchronized with utility in mains mode, 50 / 60 Hz ±0.1% in battery mode						
Waveform	Sinusoidal						
Power factor	1						
Total harmonic distortion (THDv)	≤ 1% (linear load); ≤ 4% (non-linear load)						
Crest factor	3:1						
Overload	105% ~110% for 60 min, 110% ~ 125% for 10 min, 125% ~ 150% for 1 min, > 150% for 0.2 s						
BATTERIES							
DC voltage	± 192 Vdc (± 180 ~ ± 264 Vdc settable), 40 kVA built-in battery: ± 240 Vdc (80 pcs 9 Ah/12 V)						
Number of battery	32 pcs (30 ~ 44 pcs settable)						
Charging current (max.)	12 A	24 A		36 A		48A	
Recharge time	Depend on the capacity of battery						
SYSTEM							
Efficiency	Max. 96% in online mode, 99% in ECO mode						
Transfer time	0 ms						
Protections	Short-circuit, overload, overtemperature, excessive low battery, overvoltage, undervoltage, fans failure						
Max. number of parallel connections	4						
Communications	Standard configuration: RS232, USB, RS485, RJ45, dry contacts; Optional configuration: SNMP card, Wi-Fi card, GPRS card						
Display	5 inches colorful LCD touch screen						
OTHERS							
Operating temperature	0℃ ~ 40℃						
Storage temperature	-25℃ ~ 55℃ (without battery)						
Relative humidity	0% ~ 95% (non-condensing)						
Altitude	≤ 1000 m; above 1000 m, downgrading 1% for each additional 100 m						
IP rating	IP 20						
Noise level at 1 m	≤ 65 dB						
Dimensions (W × D × H) (mm)	360 × 850 × 885	360 × 850 × 950	360 × 850 × 1200	440 × 850 × 1200		600 × 850 × 1200	
Packaged dimensions (W × D × H) (mm)	450 × 940 × 1055	450 × 940 × 1120	450 × 940 × 1370	530 × 940 × 1370		700 × 950 × 1370	
Net weight (kg)	95, 295 (built-in BAT)	130	156	158	198	250	300
Gross weight (kg)	110, 310 (built-in BAT)	145	172	180	220	275	325

- All specifications are subject to change without notice.
- Custom-made specifications are acceptable.
- Derate capacity to 90% when the number of batteries is set to 30 pcs.

Modular 20

20kVA ~ 200kVA

PF 1.0

Highlights

- High power factor 1.0
- High efficiency 96%
- High power density
- 3-level technology
- 2 U power module
- Power flexibility from 20-200 kW
- Scalability & Modular hot-swappable
- Low total cost of ownership

Modular 20 Series modular UPS is ideal for reliable, saving, intelligent and easy solutions. It ensures that a scalable, secure, high quality power supply is available for any critical high-density computer and IT environment applications, such as data centers and other critical loads.

Modular 20 Series (20 kVA ~ 200 kVA) UPS is a high-end modular UPS with latest dual-core DSP control technology. It adopts a highly intelligent modular design which mainly contains power modules, bypass module and control module, all modules support “plug & play” to simplify UPS servicing and maintenance. The available UPS power and redundancy level can expand vertically from 20 kVA / 20 kW to 200 kVA / 200 kW in one single power cabinet with flexible configuration for meeting different needs. Based on superior electrical performance, perfect hardware and software protection function, Modular 20 Series UPS can adapt to different grid environment and provides maximum protection and high quality power for critical loads in data centers or other important applications.

Features

- Advanced dual-core DSP control technology
- True on-line, double conversion power protection, and with strong load capacity
- Compact footprint, modular hot-swappable design simplifying maintenance and scalability
- High efficiency up to 96% in on-line mode, 99% efficiency in ECO mode
- Dual input design, independent bypass available, improving bypass availability
- Output power factor 1.0, input power factor ≥ 0.99, input THDi ≤ 3%, output THDv ≤ 1%
- 138 ~ 485 Vac wide input voltage range, 50 Hz / 60 Hz grid self-adaptive
- Frequency conversion available: 50 Hz input / 60 Hz output or 60 Hz input / 50 Hz output
- Advanced digital parallel technology, improving redundancy and reliability in system
- Flexible charger parameter and battery configuration settings, battery number 30 ~ 46 pcs selectable
- Compatible with lead-acid battery and lithium battery, suitable for different types of battery configuration requirements
- Support cold start with battery and auto restart with mains power
- Settable delay time for startup when the mains power is restored, reducing the impact on the grid or generators
- Fan speed varies intelligently with temperature, reducing noise and extending the service life of the fan
- Fault-tolerant design for fan system, taking 35% loads when any one of fans fails
- Superior hardware and software protection function, robust self-diagnostic function, and abundant event log
- Hibernation function to improve the system efficiency at light loads and extend the service life of UPS
- Powerful background software for parameters configuration and online updating
- 7 inches LCD touch screen, friendly human-machine interface
- Multi-platform communications: RS232, RS485, CAN, NET, dry contacts, SNMP, Wi-Fi and 4G communication interfaces; Real-time monitoring UPS available through the mobile App after installing Wi-Fi card and 4G card
- Intelligent battery management, automatic floating/equalizing charge control, battery self-diagnosis control, SOC detection, SOH detection and charger hibernation control, extending battery lifespan

Available Options

Parallel cables, LBS cables,
Battery temperature sensor,
Wi-Fi card, 4G card, EMD

Power Module

① Run indicator ② Alarm indicator ③ Fault indicator
④ Ready switch ⑤ Output port ⑥ Input port

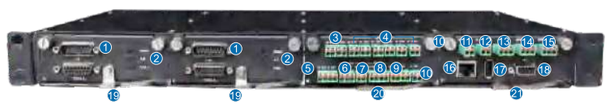
Dimensions (W×D×H) (mm)	442x620x86
Weight (kg)	21kg
Charging current	10A
Capacity	20/25/30kVA
Power density	20.9W/inch^3(Max)

Bypass Module

① Run indicator ② Alarm indicator ③ Fault indicator
④ Ready switch ⑤ Signal terminal ⑥ Power terminal

Dimensions (W×D×H) (mm)	442×500×130
Weight (kg)	18 kg
Capacity	200 kVA / 200 kW

Details



① LBS connection port/rack parallel port ② LED indicator ③ Input dry contacts ④ Output dry contacts ⑤ Battery ground fault (BTG) interface/ generator (GEN) interface
⑥ Generator (GEN) port ⑦ Battery circuit breaker (BCB) port ⑧ EPO port ⑨ Switch state port of distribution cabinet ⑩ SPD port
⑪ Ambient temp port ⑫ Battery temperature compensation port ⑬ CAN port ⑭ RS485 port 1 ⑮ RS485 port 2 ⑯ Ethernet port
⑰ USB port ⑱ LCD port ⑲ Plug-in switch of system control board ⑳ Plug-in switch of dry contacts board ㉑ Plug-in switch of monitoring board

Technical specifications

MODEL	MOD 6680	MOD 66120	MOD 66160
Rated capacity	80 kVA / 80 kW	120 kVA / 120 kW	160 kVA / 160kW
Number of power module	4	6	8
Rated capacity of power module	20kVA/20kW		
MODEL	**MOD 66100**	**MOD 66150**	**MOD 66200**
Rated capacity	100 kVA / 100 kW	150 kVA / 150 kW	200 kVA / 200kW
Number of power module	4	6	8
Rated capacity of power module	25kVA/25kW		
MODEL	**MOD 66120**	**MOD 66150**	**MOD 66180**
Rated capacity	120 kVA / 120 kW	150 kVA / 150 kW	180 kVA / 180kW
Number of power module	4	5	6
Rated capacity of power module	30kVA/30kW		
INPUT			
Input wiring	Three-phase five-wire (3Φ + N + PE)		
Rated voltage	380 / 400 / 415 Vac		
Voltage range	138 ~ 305 Vac (linear derating at 40% ~ 100% load), 305 ~ 485 Vac (no derating)		
Frequency range	40 ~ 70 Hz		
Input power factor	≥ 0.99		
THDi	≤ 3%		
Bypass input voltage range	-60% ~ +25% (settable)		
Battery voltage	± 240 Vdc (±180 ~ ± 276 Vdc settable)		
Number of battery	40 pcs 12 V batteries (30, 32, 34, 36, 38, 40, 42, 44, 46 pcs settable)		
OUTPUT			
Output wiring	Three-phase five-wire (3Φ + N + PE)		
Rated voltage	380 / 400 / 415 Vac		
Output voltage regulation accuracy	±1%		
Output frequency accuracy	Synchronized with utility in mains power mode; 50 Hz / 60 Hz ± 0.1% in battery mode		
Output power factor	1		
Output waveform distortion (THDv)	≤ 1% (linear load); ≤ 3% (non-linear load)		
Crest factor	3:1		
Overload capacity	105% < load ≤ 110% for 60 min, 110% < load ≤ 125% for 10 min, 125% < load ≤ 150% for 1 min, load > 150% for 0.2 s		
SYSTEM			
Max. efficiency	96% in on-line mode, 99% in ECO mode		
Transfer time	0 ms		
Max. number of parallel connections	2		
Protections	Short-circuit, overload, over-temperature, battery low voltage, undervoltage, overvoltage, fan failure protection		
Communications	Standard configurations: RS485, CAN, NET, SNMP, dry contacts port, and EPO Optional configurations: Wi-Fi card, parallel port, LBS port, 4G card, battery temperature sensor, EMD		
Display	7 inches LCD touch screen		
ENVIRONMENTAL			
Operating temperature	0℃ ~ 40℃		
Storage temperature	-25℃ ~ +55℃ (without battery)		
Relative humidity	0% ~ 95% (non-condensing)		
Altitude	≤ 1000 m, above 1000 m, derating 1% for each additional 100 m		
Protection level	IP 20		
Noise	≤ 65 dB (at 1 m)		
OTHERS			
Cabinet dimensions (W x D x H)(mm)	600 x 850 x 1200	600 x 850 x 1800	600 x 850 x 2000
Cabinet weight(kg)	180	250	280
Module dimensions(W x D x H)(mm)	442 x 620 x 86		
Power module weight(kg)	21		
Color	Black		

• All specifications are subject to change without notice.

Modular 50

50KVA ~ 600KVA
PF 1.0

Features

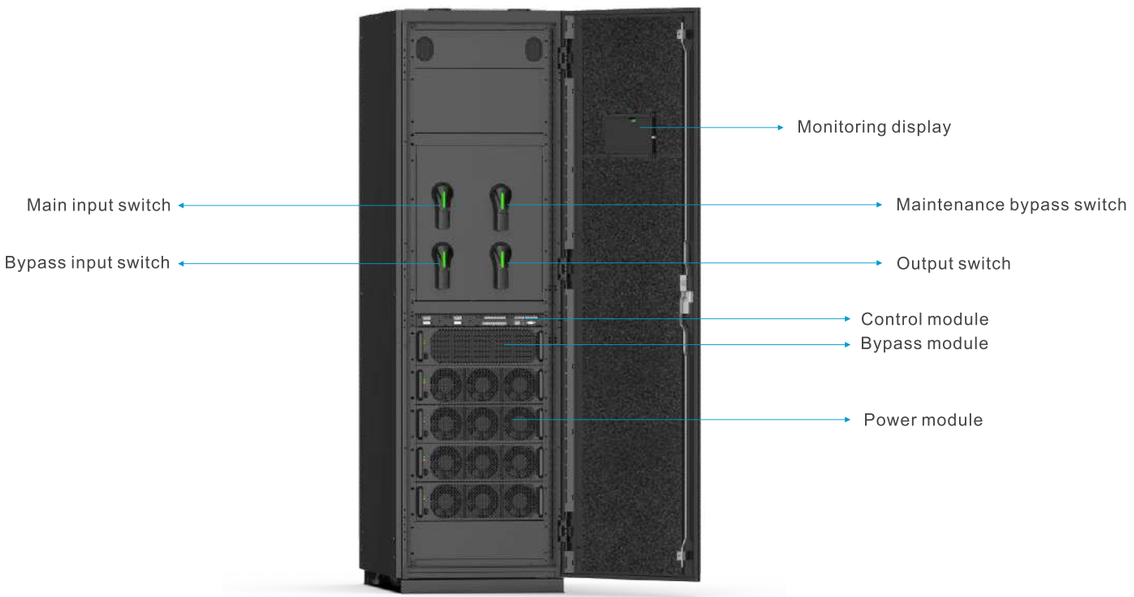
- DSP digital control technology
- Flexible modularity and easy scalability with all hot-swappable module design
- High efficiency at low load rate: 96% at 40% rated load and 95% at 20% rated load
- High power density of 50 kVA / 3U power module
- High grid adaptability, strong load adaptability and strong overload capability
- Small footprint (500 kVA system only 1.02 m^2 footprint)
- Inbuilt integrated PDU system, easy installation and saving investment
- Input power factor > 0.99, THDi < 3%, environment friendly and high-efficiency and energy-saving
- Soft-start technology improves generator matching up to 1:1.1
- Support two modes of frequency conversion: 50 Hz input / 60 Hz output and 60 Hz input / 50 Hz output
- Intelligent hibernation design enables UPS to operate efficiently at low load rate
- Advanced parallel expansion technology, support 4 units in parallel
- Share battery pack in parallel operation, saving user's battery cost
- Flexible charger parameter and battery configuration setting, numbers of battery 30 ~ 46 pcs selectable
- Intelligent battery management (Intelligent charge/discharge management and float charging voltage temperature compensation), extending battery lifespan
- Support battery cold start and utility self boot
- Self-aging function, easy debugging and test on site
- Fault-tolerant design for fan system: 30% load can be driven when 2 fans fail and 50% load when 1 fan fails
- Front accessible maintenance, top/bottom cable entry compatible
- Complete hardware and software protection function, robust self-diagnostic function, and abundant event log for check
- 7 inches LCD touch screen, friendly human-machine interface
- Monitoring unit with built-in SNMP, supports RS485 and dry contacts

Highlights

- High power factor 1.0
- High efficiency 96.5%
- High adaptability
- Power flexibility from 50-600 kW
- Modular hot-swappable & Scalability
- High MTBF and low MTTR

Modular 50 UPS is ideal for reliable, saving, intelligent and easy solutions. It ensures that a scalable, secure, high quality power supply is available for any critical high-density computer and IT environment applications, such as data centers and other critical loads.

Modular 50 UPS is a scalable three-phase / three-phase uninterruptible power supply system with DSP technology and provides true on-line double conversion power protection. The available UPS power and redundancy level can expand vertically from 50 to 600 kVA / 600 kW in one single power cabinet, and four power cabinets can be connected in parallel, increasing the capacity up to 2.4 M kW. It features modular hot-swappable design, all modules support “plug & play”, including power modules, bypass module, and control module, simplifies UPS servicing and maintenance.



Power Module

Bypass Module

Control Module

① Parallel port	② LED indicator	③ DRY_IN	④ DRY_OUT	⑤ BTG port	⑥ BCB port
⑦ BCB tripping signal	⑧ EPO port	⑨ Switch state port of power distribute cabinet	⑩ SPD port	⑪ Environmental temperature port	⑫ Battery temperature compensation port
⑬ CAN port	⑭ RS485 port 1	⑮ RS485 port 2	⑯ Ethernet port	⑰ USB port	⑱ LCD screen port

Technical specifications

MODEL	MOD 200	MOD 300	MOD 400	MOD 500	MOD 600
Rated capacity	**200 kVA / 200 kW**	**300 kVA / 300 kW**	**400 kVA / 400 kW**	**500 kVA / 500 kW**	**600 kVA / 600 kW**
Numbers of power modules	4	6	8	10	12
Rated capacity of power module	50 kVA				
INPUT					
Input wiring	3 Ph + N + PE				
Rated voltage	380 / 400 / 415 Vac				
Voltage range	138 ~ 485 Vac (305 ~ 485 Vac without power downgrading; 138 ~ 305 Vac with linear downgrading 40%)				
Input frequency	40 ~ 70 Hz				
Power factor	⩾ 0.99				
Current distortion	< 3%				
BATTERIES					
Battery voltage	± 240 Vdc (±180, ± 192, ± 204, ± 216, ± 228, ± 252, ± 264, ± 276 selectable)				
Number of battery	40 pcs 12 V batteries (30 / 32 / 34 / 36 / 38 / 42 / 44 / 46 pcs selectable)				
OUTPUT					
Output wiring	3 Ph + N + PE				
Rated voltage	380 / 400 / 415 Vac ±1%				
Frequency	Synchronized with utility in mains power mode: 50 Hz / 60 Hz ± 0.25% in battery mode				
Power factor	1				
Voltage distortion	≤ 1% with linear load / ≤ 3 % with non-linear load				
Crest factor	3:1				
Inverter overload capacity	105% < load ≤ 110%: transfer to bypass in 60 min 110% < load ≤ 125%: transfer to bypass in 10 min 125% < load ≤ 150%: transfer to bypass in 1 min Load > 150%: transfer to bypass in 200 ms				
Bypass overload capacity	Load ≤135% for long term; < 1000% load for 100 ms				
SYSTEM					
Efficiency	96.5 %				
Max. number of parallel connections	4 units				
Transfer time	0 ms				
Protections	Short-circuit protection, overload protection, over temperature protection, battery low voltage protection, output over/low voltage protection, fans failure protection etc.				
Communications	RS485, dry contacts, SNMP				
Display	7 inches LCD touch screen				
OTHERS					
Operating temperature	0 ~ 40℃				
Storage temperature	-40℃ ~ +70℃				
Humidity	0 ~ 95% (non-condensing)				
Altitude	≤ 1000 m. Above 1000 m, derating 1% for each additional 100 m				
Protection level	IP 20				
Noise level at 1 m	< 65 dB	< 68 dB			
Cabinet dimensions (W x D x H) (mm)	600 x 850 x 2000		1200 x 850 x 2000		1400 x 850 x 2000
UPS module dimensions (W x D x H) (mm)	440 x 620 x 130				
Cabinet weight (kg)	233	242	415	465	617
Power module weight (kg)	32				

• All specifications are subject to change without notice.