

ARES

AR620 (PF 0.8) With USB Pure sine wave



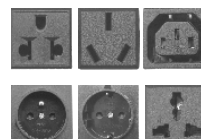
Features

- Pure sine wave output
- Output power factor 0.8
- 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 communication port



Rear Panel

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



Optional sockets



Specifications

MODEL		AR620
Capacity		2000 VA / 1600 W
DC INPUT		
Rated voltage		36 V (S) 48 V (H)
DC input range (default)		30 ~ 45 V (S) 40 ~ 60 V (H)
AC INPUT		
AC input range (bypass mode)		0 ~ 121 V / 132 V / 138 V / 144 Vac for 100 V / 110 V / 115 V / 120 Vac $\pm$ 10 Vac 0 ~ 242 V / 264 V / 276 V / 288 Vac for 200 V / 220 V / 230 V / 240 Vac $\pm$ 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 Hz / 60 Hz (auto-sense), 50 Hz / 60 Hz $\pm$ 5% ~ 15%
Generator connection		Available (generator input power is settable)
OUTPUT		
Inverter output range		100 V / 110 V / 115 V / 120 / 200 V / 220 V / 230 V / 240 Vac $\pm$ 5% (settable)
AC output range (bypass mode)		0 ~ 121 V / 132 V / 138 V / 144 Vac for 100 V / 110 V / 115 V / 120 Vac $\pm$ 10 Vac 0 ~ 242 V / 264 V / 276 V / 288 Vac for 200 V / 220 V / 230 V / 240 Vac $\pm$ 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 $\pm$ 0.3 Hz (settable)
Waveform		Pure sine wave
Inverter efficiency		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		$\leq$ 10 ms
THDV (resistive load)		$\leq$ 5%
Protections		Overload, short circuit (inverter), battery low voltage, battery overcharge, overtemperature
Overload time (mains mode)		120 s for 110%, 60 s for 125%, 10 s for 150% (transfer to bypass mode)
Overload time (inverter mode)		60 s for 110%, 10 s for 125%, 5 s for 150% (Shut down directly)
Mute		Automatic mute in 60 s or by manual
BATTERIES		
Battery capacity (H: external expansion)		12V/9Ahx3 (H: 12Vx4)
Charging current	Standard model (S): 1 A (default)	
	Long time model (H): 10 A (default); < 10 A, set step 1 A; $\geq$ 10 A, set step 5 A	
	Max. 20 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
COMMUNICATIONS		
USB+RJ45		Supports Windows® 98 / 2000 / 2003 / XP / Vista / 2008 / 7 / 8 / 10
SNMP (optional)		Power management from SNMP manager and web browser (standard with slot)
OTHERS		
Operating temperature		5°C ~ 40°C
Operating humidity		Relative humidity $\leq$ 93%
Noise level		$\leq$ 50 dB (1m)
Tower	Dimensions (W × D × H) (mm)	
	144 × 410 × 215 (S) 144 × 345 × 215 (H)	
	Packaged dimensions (W × D × H) (mm)	
	236 × 492 × 316 (S) 236 × 427 × 316 (H)	
	Net weight (kg)	
Rack mount	18.5 (S) 17.8 (H)	
	Gross weight (kg)	
	19.8 (S) 18.8 (H)	
	Dimensions (W × D × H) (mm)	
	440 × 410 × 132 (S)	
Rack mount	Packaged dimensions (W × D × H) (mm)	
	611 × 505 × 235 (S)	
	Net weight (kg)	
Rack mount	21.3 (S)	
	Gross weight (kg)	
Rack mount	24.5 (S)	

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