

# ARES

## AR630 (PF 0.8) With USB Pure sine wave



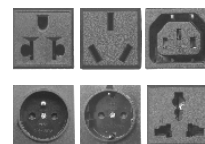
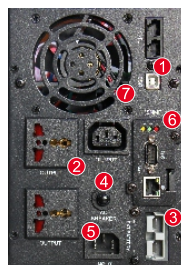
### Features

- 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		AR630
Capacity	3000 VA / 2400 W	
<b>DC INPUT</b>		
Rated voltage	48 V	
DC input range (default)	40 ~ 60 V	
<b>AC INPUT</b>		
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)	
<b>OUTPUT</b>		
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	
<b>BATTERIES</b>		
Battery capacity (H: external expansion)	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; $\geq$ 10 A, set step 5 A	
	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	
<b>COMMUNICATIONS</b>		
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)	
<b>OTHERS</b>		
Operating temperature	5°C ~ 40°C	
Operating humidity	Relative humidity $\leq$ 93%	
Noise level	$\leq$ 50 dB (1m)	
Tower	Dimensions (W x D x H) (mm)	190 x 467 x 335.5 (S/H)
	Packaged dimensions (W x D x H) (mm)	320 x 592 x 462 (S/H)
	Net weight (kg)	28.1 (S) 28.0 (H)
	Gross weight (kg)	30.2 (S) 30.0 (H)
Rack mount	Dimensions (W x D x H) (mm)	440 x 410 x 132 (S)
	Packaged dimensions (W x D x H) (mm)	611 x 505 x 235 (S)
	Net weight (kg)	26.7 (S)
	Gross weight (kg)	30.5 (S)

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