

ARES

PURE SINE WAVE INVERTER

— 300W ~ 3500W



Pure Sine Wave
Safe for all device



Complete Protection
Overload, overvoltage,
short circuit & overheating



High Efficiency
Stable, durable
and energy-saving

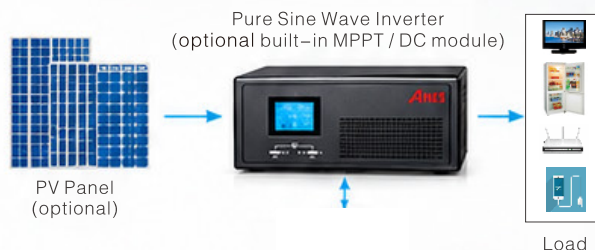


300W ~ 1600W



2500W ~ 3500W

The Pure Sine Wave Inverter is desirable long backup power solution for home and office appliances. It is not only an inverter but also contains a powerful intelligent charger. It provides pure sine wave power to all kinds of loads. And it can be used as UPS for computers as well.



Features



DSP digital control technology, pure sine wave output
Suitable for all kinds of loads, such as resistive, inductive
and rectified loads and motors



Use of pulse technology, improving load shock ability
Charge current Max.60A. Settable charge current and
charge voltage on front pannel



Settable no-load shutdown and energy saving mode
Short circuit, overload and low battery protection



Intelligent long backup time up to 10hrs (based on
battery bank and loads)

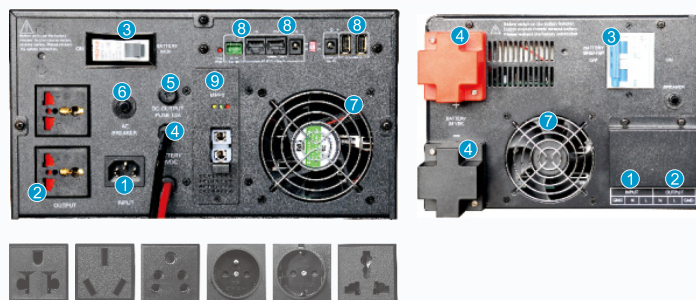


Compatible with generators, and matching of inverter
and generator is settable



Unique Functions: Optional MPPT for off-grid solar operation
and DC module for communication, routers, switches,
mobile charging, DC fans, and lighting.

Rear Panel



- 1. Input
- 2. Output
- 3. Battery Breaker
- 4. Battery Input
- 5. Fuse
- 6. AC Breaker

- 7. Fan
- 8. DC Output (optional)
- 9. MPPT Module (optional)

ARES

SMART POWER / BETTER LIFE



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MODEL	AR0312 300W	AR0612 600W	AR1012 1000W	AR1624 1600W	AR2524 2500W	AR3524 3500W
DC INPUT						
Nominal input voltage	12 V			24 V		
DC input voltage range	10 V ~ 15 V			20 V ~ 30 V		
AC INPUT						
Bypass voltage	0 ~ 264 Vac for 220 Vac / 230 Vac / 240 Vac, 0 ~ 132 Vac for 100 Vac / 110 Vac / 115 Vac / 120 Vac					
AC voltage	150 ~ 282 Vac for 220 Vac, 156 ~ 294 Vac for 230 Vac, 163 ~ 307 Vac for 240 Vac, 68 ~ 128 Vac for 100 Vac, 75 ~ 141 Vac for 110 Vac, 79 ~ 148 Vac for 115 Vac, 82 ~ 154 Vac for 120 Vac					
Frequency	50 Hz / 60 Hz (auto-sense & settable: 5% ~ 15%, default 15%), 42.5 ~ 57.5 Hz for 50 Hz, 51 ~ 69 Hz for 60 Hz					
Input voltage of generator	99 ~ 282 Vac for 220 Vac, 104 ~ 294 Vac for 230 Vac, 108 ~ 307 Vac for 240 Vac, 45 ~ 128 Vac for 100 Vac, 50 ~ 141 Vac for 110 Vac, 52 ~ 148 Vac for 115 Vac, 54 ~ 154 Vac for 120 Vac					
Input frequency of generator	40 ~ 70 Hz					
Input power limitation	Rated power 10% ~ 150%,regulating step 10%, default 120%					
OUTPUT						
DC mode output voltage	220 Vac / 230 Vac / 240 Vac ± 5% or 100Vac / 110Vac / 115Vac / 120Vac ± 5% (settable)					
AC mode output voltage	174 ~ 242 Vac for 220 Vac, 182 ~ 253 Vac for 230 Vac, 190 ~ 264 Vac for 240 Vac, 79 ~ 109 Vac for 100 Vac, 87 ~ 121 Vac for 110 Vac, 93 ~ 125 Vac for 115 Vac, 95 ~ 133 Vac for 120 Vac					
Nominal output frequency	50 Hz / 60 Hz ± 0.3 Hz (auto-sense & settable)					
Output waveform	Pure sine wave					
Output power	300 W	600 W	1000 W	1600 W	2500 W	3500 W
Efficiency	Max. 95% (mains mode); Max. 80% (inverter mode)					
ECO mode	Settable, load < 3%, enter in 80 s					
No-load shutdown	Settable, time can be set (1 ~ 99 min), load can be set (3% ~ 50%)					
Transfer time	≤ 10 ms				≤ 15 ms	
Power factor	1.0					
THDV	< 5% (linear load)					
Inductive load	Yes					
Motor load	Yes					
Rectifier load	Yes					
Overload	Mains mode: 110% for 120 s, 125% for 60 s, 150% for 10 s (switch to bypass) Inverter mode: 110% for 60 s, 125% for 10 s, 150% for 10 s (shut down)					
BATTERIES						
Charging current (selectable)	Default 10 A	Default 20 A, regulating step 1 A (< 10 A) / 5 A (> 10 A)				
	Max. 15 A	Max. 30 A	Max. 40 A	Max. 40 A	Max. 50 A	Max. 60 A
Equalizing charge voltage	Single battery 14.4 Vdc (default), 13.6 ~ 15 Vdc adjustable					
Floating charge voltage	Single battery 13.7 Vdc (default), 13.2 ~ 14.6 Vdc adjustable					
Charge mode	3 stage charge mode					
DOD	Single battery 10.8 Vdc (default), 9.6 ~ 13 Vdc settable					
EOD	Single battery 10.2 Vdc (default), 9.6 ~ 11.5 Vdc adjustable					
Reverse warning	Buzzer					
MPPT MODULES (OPTIONAL)						
Model	10 A / 20 A / 30 A / 40 A				/	
Max. PV input voltage (Voc)	40 V			60 V	/	
PV optimum operating voltage (Vmp)	18 V ~ 32 V			29 V ~ 48 V	/	
Max. PV power	120 W / 240 W / 360 W / 480 W			240W/480W/ 720W/960W	/	
DC MODULES (OPTIONAL)						
Model	5 V (2 A), 9 V / 12 V (1 A), 15 V / 24 V (1 A), 12 V / 24 V (10 A)					
OTHERS						
Protections	Overload – short-circuit – overvoltage – undervoltage – overcharge – overtemperature – excessive low battery					
Human-machine interface	LCD & BUZZER					
Operating temperature	0°C ~ 40°C					
Operating humidity	Relative humidity ≤ 93%					
Net weight (kg)	8.0/8.5/7.4	10.9/11.4/11	14.0/14.6	18.0/18.5	32.0	36.0
Gross weight (kg)	9.0/9.5/8.4	11.9/12.4/12	15.0/15.6	19.0/19.5	34.0	38.0
Dimensions (W × D × H) (mm)	280 × 258 × 120 (w/o option) 293 × 280 × 160 (w/ option) 400 × 210 × 127 (Wall mounted)			293 × 280 × 160		302 × 479 × 209
Packaged dimensions (W × D × H) (mm)	330 × 352 × 200 (w/o option) 370 × 355 × 235 (w/ option) 490 × 290 × 195 (Wall mounted)			370 × 355 × 235		353 × 582 × 287