

ARES PLUS tower

ONLINE TECHNOLOGY (VFI) FOR MAXIMUM PROTECTION

1000VA – 3000VA

ARES Plus tower is the ideal UPS for applications that require extended battery operation and for medium-voltage substations.

Its advanced technology maximises battery life and ensures high efficiency.



IDEAL FOR



Servers and
networking



Telecommunications



Industrial
applications



Medium-voltage
substations



Electro-medical
equipment

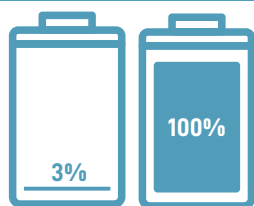
FEATURES

- Online double conversion technology (VFI) from 1000VA to 3000VA with a power factor of 0.9.
- Easy to install.
- Low running costs: the high efficiency VFI and ECO features minimise energy consumption.
- High uptime expandability.
- User-friendly monitoring software can be downloaded free and is compatible with the main operating systems, for: monitoring functions, diagnostics, controlled shutdown of loads in the event of blackouts.
- High overload handling capacity.
- Constant voltage constant frequency (CVCF) output mode for maximum protection of particularly sensitive loads (e.g. electro-medical equipment).
- Wide input voltage and frequency ranges reduce battery switching, thereby increasing battery life and efficiency.
- Option to set the percentage residual battery charge from 3% to 100% of the available capacity.
- Accurate calculated remaining uptime is shown on the display.
- Two sets of IEC sockets that can be programmed separately.
- Cold start.
- Firmware can be upgraded easily to implement new features.
- EPO and On/Off, with remote option.
- RS232 and USB ports, slots for additional communication cards.
- Supplied with input and output power cables.

KEY OPTIONS

- Cards: RS-485 ModBus, SNMP/web and relay card with dry contacts to send the UPS status to various systems, such as BMS, PLC, SCADA and AS400.
- External manual bypass with additional sockets.
- External battery cabinets.

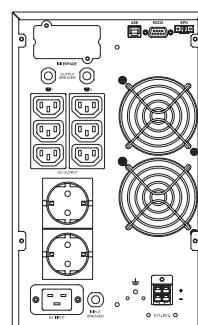
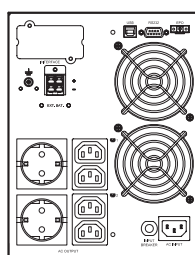
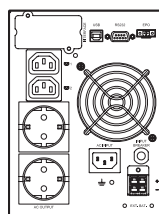
RESIDUAL BATTERY CHARGE MANAGEMENT



- 1) Set the battery discharge level (3-100%) with the included software.
- 2) The UPS turns off when it reaches the set residual battery charge level.
- 3) The UPS can be switched on again manually even without mains power.

BACK PANEL

AR 1000/2000/3000 Plus



ARES PLUS TOWER TECHNICAL DATA SHEET

MODEL			AR1000 Plus		AR2000 Plus		AR3000 Plus	
POWER	VA		1000		2000		3000	
	W		900		1800		2700	
INPUT	Rated voltage*		110–300 Vac					
	Frequency		44–66 Hz					
	Power factor		>0.99					
OUTPUT	Rated voltage		200/208/220/230/240 Vac					
	Voltage distortion		<3% with linear load I, <7% with distorting load					
	Voltage stability		±1%					
	Frequency		50/60 Hz (selectable)					
	Frequency stability		±1 Hz or ±3 Hz (selectable)					
	Power factor		0.9					
	Crest factor		3:1					
	Waveform		Pure sine wave					
	Output sockets		2 x IEC C13 2 Schuko		4 x IEC C13 2 Schuko		6 x IEC C13 2 Schuko	
EFFICIENCY	VFI mode		Up to 92%					
	ECO mode		Up to 97%					
GENERAL	Dimensions (WxDxH) mm		154x382x211		192x470x250		192x451x319.9	
	Weight (kg)		11.6		22.2		29.8	
	Alarms		Audible and visual alarm alerts for: power failure, low battery, bypass transfer, and UPS fault.					
	Protection		Overload, overheating, short circuit, deep discharge, battery overcharging.					
	Operating mode		Multi-mode: VFI, ECO, Constant voltage constant frequency (CVCF) output.					
	Cold start from the battery without mains power		Included					
BATTERY	Battery type		12V VRLA, AGM (maintenance-free lead)					
	Uptime with internal battery in minutes	50% load	14		15		12	
		100% load	5		5		4	
	Charging time (90%)		4–6 hours					
Battery expansion module dimensions (WxDxH) **		154x403.6x258.2		192x552.8x319.9				
ENVIRONMENTAL PARAMETERS	Operating temperature***		0–40°C					
	Relative humidity		0%–90% (non-condensing)					
	Altitude (a.s.l.)		<1000 m with no power derating, >1000 m with 1% derating for every 100 m.					
	Audible noise at 1 m.		≤50 dBA					
CONNECTIVITY	Built-in communication ports		USB, RS232, EPO and additional slots for optional cards					
	User interface		LED, LCD and function keys (parameters: voltage, frequency, load percentage, battery voltage, output voltage, estimated uptime, UPS temperature).					
	Optional accessories		Cards: SNMP, RS485 ModBus, and dry relay contacts					
	Compatible software platforms		Microsoft Windows, Linux, Mac OS, VMware					
REGULATIONS	Standards		IEC EN 62040-1, IEC EN 62040-2, IEC EN 62040-3					
	Marking		CE					

Data may be subject to change without notice due to our commitment to continuous innovation - rev 22_06

* Depending on the load

** Battery weight and configuration depends on the required uptime

*** To be verified according to the battery parameters