

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

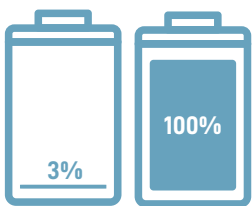
FEATURES

- Online double conversion technology (VFI) from 1000 VA to 3000 VA 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 option.
- 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.
- Suitable for CEI 0-16 applications.
- Supplied with input and output power cables.

KEY OPTIONS:

- Cards: RS485, 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.

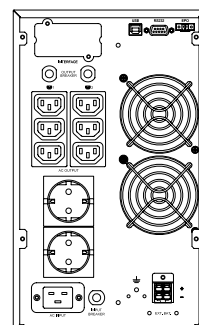
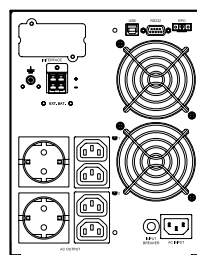
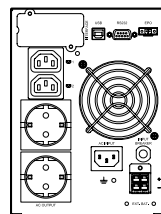
RESIDUAL BATTERY CHARGE MANAGEMENT



- 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 min).	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			

Catalogue data may be subject to change without notice due to our commitment to continuous innovation - rev 21_07

* Depending on the load

** Battery weight and configuration depends on the required uptime

*** To be verified according to the battery parameters