

ARES RT PLUS

MAXIMUM ONLINE (VFI) PROTECTION FOR ALL INDUSTRIES, RACK AND TOWER

1000VA–3000VA

Ares RT Plus are ideal 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



Medium-voltage
substations



Electro-medical
equipment



Industrial
applications



Safety
systems

FEATURES

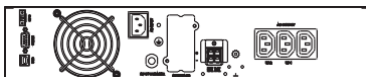
- Online double conversion technology (VFI) from 1000 VA to 3000 VA with a power factor of 0.9.
- Versatile: the display panel can be turned to transform the rack into a tower and the low height of the Ares RT make them suitable for rack cabinets.
- Easy to install.
- Low running costs: the high efficiency 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 (2 and 3K models).
- Cold start.
- Firmware can be upgraded easily to implement new features.
- EPO and On/Off, with remote option.
- RS232 and USB ports, slots for optional communication cards.
- Supplied with input and output power cables.

KEY OPTIONS

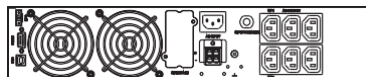
- Cards: RS485, SNMP/ web and relay card with dry contacts to send the UPS status to various systems, such as BMS, PLC, SCADA and AS400.
- External manual bypass with additional sockets.
- External battery cabinets.

BACKPANEL

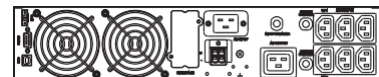
AR 1000 RTPlus



AR 2000 RTPlus



AR 3000 RTPlus



ARESRT PLUS TECHNICAL DATA SHEET

MODEL			AR1000 RTPlus	AR2000 RTPlus	AR3000 RTPlus
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, <7% with distorting load		
	Voltage stability		±1%		
	Frequency		50/60 Hz (selectable)		
	Frequency stability		±1Hz or ±3 Hz (selectable)		
	Power factor		0.9		
	Crest factor		3:1		
	Waveform		Pure sine wave		
	Output sockets		3 x IECC13	6 x IECC13	6 x IECC13 1x IECC19
EFFICIENCY	VFI mode		Up to 92%		
	ECOmode		Up to 97%		
GENERAL	Dimensions (WxDxH) mm		440x405x88 (2U)	440x600x88 (2U)	440x600x88 (2U)
	Weight (kg)		11.7	21.8	24.6
	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		12VVRLA, 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)**		440x430x88(2U)	440x581x88 (2U)		
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 1m.		Φ50 dBA		
CONNECTIVITY	Built-in communication ports		USB, RS232, EPOand 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