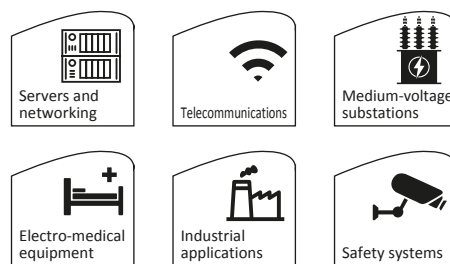


SINGLE-PHASE ONLINE UPS



Features

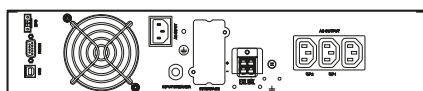
- Online double conversion technology (VFI) from 1000 VA to 3000 VA with a power factor of 0.9.
- Versatile: the display panel can be turned to transform the rack into a tower and the small depth of the OD RT and low height of the AR RT make them suitable for rack cabinets.
- Easy to install.
- Low running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

Key options

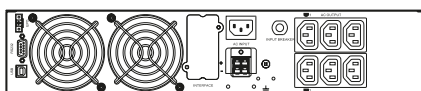
- Cards: RS485, SNMP/web and relay card with dry contacts to send the UPS status to various systems, such as BMS, PLC, SCADA and AS400.
- External manual bypass with additional sockets.
- External battery cabinets.

BACK PANEL

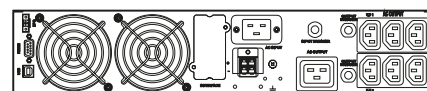
AR1000 RT Plus



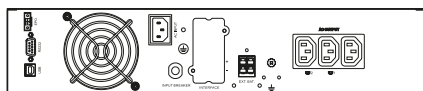
AR2000 RT Plus



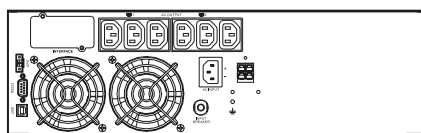
AR3000 RT Plus



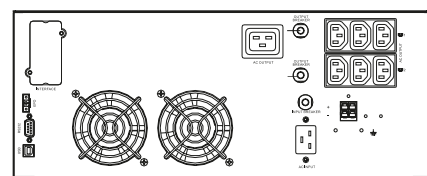
OD1000 Plus



OD2000 Plus



OD3000 Plus



MAXIMUM ONLINE (VFI) PROTECTION FOR ALL KINDS OF RACK CABINET

AR RT PLUS and OD 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.

MODEL		AR1000 RT Plus	AR2000 RT Plus	AR3000 RT Plus	OD1000 Plus	OD2000 Plus	OD3000 Plus	
POWER	VA	1000	2000	3000	1000	2000	3000	
	W	900	1800	2700	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	±1 Hz or ±3 Hz (selectable)						
	Power factor	0.9						
	Crest factor	3:1						
	Waveform	Pure sine wave						
	Output sockets	3 x IEC C13	6 x IEC C13	6 x IEC C13 1 x IEC C19	3 x IEC C13	6 x IEC C13	6 x IEC C13 1 x IEC C19	
EFFICIENCY	VFI mode	Up to 92%						
	ECO mode	Up to 97%						
GENERAL	Dimensions (WxDxH) mm	440x405x88 (2U)	440x600x88 (2U)	440x600x88 (2U)	440x405x88 (2U)	440x432x132 (3U)	440x432x176 (4U)	
	Weight (kg)	11.7	21.8	24.6	11.7	23	25	
	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)						
	Number per string	3	6		3	6		
	Uptime with internal battery (in min.)	50% load	14	15	12	14	15	12
		100% load	5	5	4	5	5	4
	Charging time (90%)	4–6 hours						
Battery expansion module dimensions (WxDxH)**	440x430x88(2U)	440x581x88 (2U)		440x430x88(2U)	440x430x176 (4U)			
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 contact relays						
	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, UKCA						

* Depending on the load ** Battery weight and configuration depends on the required uptime *** To be verified according to the battery parameters