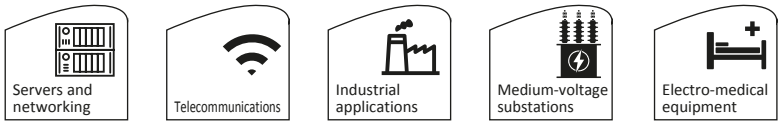
SINGLE-PHASE ONLINE UPS



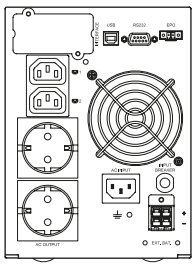
Features

- 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. electromedical 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 additional communication cards.
- Supplied with input and output power cables.

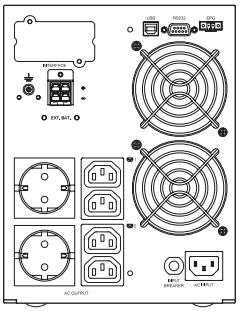
Key options

- 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.

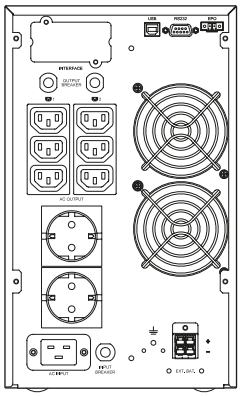
BACK PANEL



AR 1000 Plus



AR 2000 Plus



AR 3000 Plus

Ablerex

AR PLUS tower 1000VA - 3000VA

ONLINE TECHNOLOGY (VFI) FOR MAXIMUM PROTECTION

AR 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.

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)		
	Number per string		3	6	
	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 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