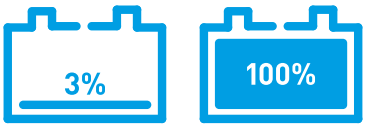
- Online double conversion technology (VFI) from 1000 VA to 3000 VA with a power factor of 0.9.
- Easy to install.
- Low running costs: the high efficiency VFI and ECO features minimise energy consumption.
- High uptime expandability.
- User-friendly monitoring software can be downloaded free and is compatible with the principle 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 without mains power.
- 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.
- 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.

## Longer battery life thanks to battery reserve management

1) Set the battery discharge level (3-100%) with the free 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.




Indicative input power of various devices
(you are advised to check actual input power)

• Router 30 W • POS + Cash register 50 W • NAS 60 W • 43" TV 100 W • Inkjet printer / Scanner 180 W • Desktop PC + 21" LCD monitor 250 W • Desktop Gaming PC + 24" LCD monitor 500 W • High-end dual-processor PC + 32" LCD monitor 800 W • Rack/tower server from 300 to 1000 W • Video game console 140 W

## Uptime table

Consulting the summary table below will let you quickly identify a model based on the total VA/W consumption of the devices to be protected.

| | ARES Online | | |
|---|---|---|---|
| Model | 1000 VA | 2000 VA | 3000 VA |
| UPS power in W | 900 | 1800 | 2700 |
| Device input power in Watts | Uptime in minutes | Uptime in minutes | Uptime in minutes |
| 52.5 | >90 | >90 | >90 |
| 105 | 60 | 90 | >90 |
| 210 | 33 | 72 | >90 |
| 315 | 20 | 50 | 65 |
| 455 | 14 | 33 | 42 |
| 595 | 9 | 21 | 31 |
| 700 | 7 | 18 | 26 |
| 900 | 5 | 15 | 18 |
| 1050 | | 12 | 15 |
| 1225 | | 9 | 13 |
| 1400 | | 7 | 12 |
| 1800 | | 5 | 8 |
| 2100 | | | 6 |
| 2700 | | | 4 |

## ARES 1000-3000 VA

## ARES RT - ODIN RT 1000-3000 VA

ARES and ODIN are the ideal UPS for applications that require extended battery operation and for medium-voltage substations in accordance with CEI 0-16.
Their advanced technology maximises battery life and ensures high efficiency.

For applications that require tower models.

Suitable for all rack types including compact. RT models with lockable sockets are extremely versatile: the rotating display panel means they can be easily transformed into tower versions.

## Applications

- High-end PCs
- Workstations and servers
- Server rooms and micro data centres
- Electromedical equipment
- Network and telecommunications equipment
- Medium-voltage substations
- PLC control cabinets
- BMS and SCADA systems
- Video surveillance, security and IoT devices

## Special applications

### Medium-voltage substations and control cabinets (PLC)

Ablerex has a solution whenever you need residual battery capacity. With Ablerex firmware, you can be sure that the UPS always has enough battery capacity to be turned on again and power the load.

ARES and ODIN Single-phase UPS 1000-3000 VA
MARS Single-phase UPS 6000-10000 VA

#### Benefits

- Built-in feature that is free and easy to implement.
- Backup of at least 60 minutes, residual charge control in accordance with CEI 0-16.
- Easily customisable residual battery capacity.
- Cold UPS start-up.
- Battery alarm and residual backup time indicator.
- Maximises battery protection and life.

### To ensure in any conditions 24/7 opening of electric shutters or doors of shops, bars, restaurants, warehouses and service businesses

If an electric shutter is protected by a UPS, and for some reason the mains circuit breaker trips or there is no power, the open/close mechanisms cannot be operated. The “remote on/off” option means that the Ablerex UPS can be switched on even without mains power so the electric shutter can be opened or closed.

ARES single-phase UPS 1000–3000 VA

#### Benefits

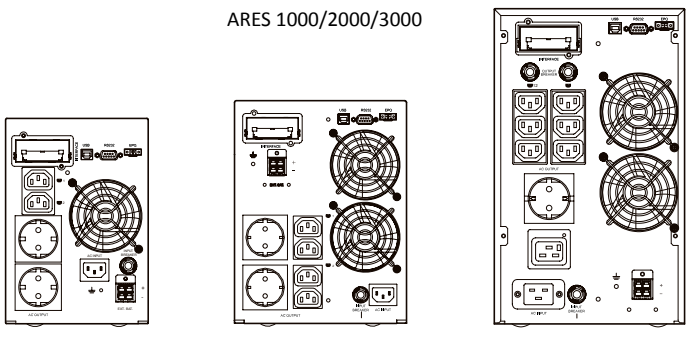
- Option that is easy to implement on request.
- Reduces TCO by avoiding the need to overdimension the UPS and batteries to overcome long periods without power (e.g. when closing a business for holidays).
- Maximises battery protection and life.

## ARES TECHNICAL DATA SHEET

| MODEL | | | ARES 1000 | ARES 2000 | ARES 3000 |
|---|---|---|---|---|---|
| UPS | 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 | | 3 x IEC C13<br>2 Schuko | 4 x IEC C13<br>2 Schuko | 6 x IEC C13<br>1 x IEC C19 lockable<br>1 Schuko |
| EFFICIENCY | VFI mode | | Up to 92% | | |
| | ECO mode | | Up to 97% | | |
| GENERAL | Dimensions (LxDxH) 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 (LxDxH) mm ** | | 154x403.6x258.2 | 192x552.8x319.9 | |
| ENVIRONMENTAL PARAMETERS | Operating temperature*** | | 0–40°C | | |
| | Relative humidity | | 0%–90% (without 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 | | LCD and function keys (parameters: voltage, frequency, percentage load, 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, UKCA | | |

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

ARES 1000/2000/3000

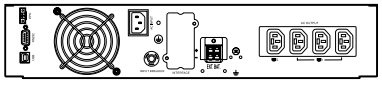


## ARES RT - ODIN RT TECHNICAL DATA SHEET

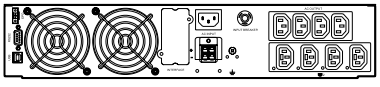
| MODEL | | | ARES 1000RT | ARES 2000RT | ARES 3000RT | ODIN 2000RT | ODIN 3000RT |
|---|---|---|---|---|---|---|---|
| POWER | VA | | 1000 | 2000 | 3000 | 2000 | 3000 |
| | W | | 900 | 1800 | 2700 | 1800 | 2700 |
| INPUT | Rated voltage* | | 110–300 Vac | | | | |
| | Frequency | | 44–66 Hz | | | | |
| | 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 | | 4 x IEC C13 lockable | 4 x IEC C13 standard<br>4 x IEC C13 lockable | 1 x IEC C19 lockable<br>2 x IEC C13 standard<br>4 x IEC C13 lockable | 6 x IEC C13 | 6 x IEC C13<br>1 x IEC C19 |
| EFFICIENCY | VFI mode | | Up to 92% | | | | |
| | ECO mode | | Up to 97% | | | | |
| GENERAL | Dimensions (LxDxH) mm | | 440x405x88 (2U) | 440x600x88 (2U) | 440x600x88 (2U) | 440xx432x132 (3U) | 440x432x176 (4U) |
| | Weight (kg) | | 11.7 | 21.8 | 24.6 | 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) | | | | |
| | Uptime with internal battery in minutes | 50% load | 14 | 15 | 12 | 15 | 12 |
| | | 100% load | 5 | 5 | 4 | 5 | 4 |
| | Charging time (90%) | | 4–6 hours | | | | |
| | Battery expansion module dimensions (LxDxH) mm ** | | 440x430x88(2U) | 440x581x88 (2U) | | 440x430x176 (4U) | |
| ENVIRONMENTAL PARAMETERS | Operating temperature*** | | 0–40°C | | | | |
| | Relative humidity | | 0%–90% (without 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, percentage load, 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, UKCA | | | | |

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

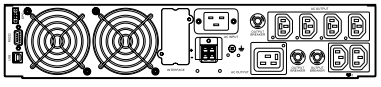
ARES 1000 RT



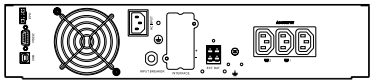
ARES 2000 RT



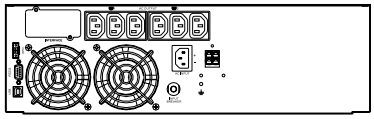
ARES 3000 RT



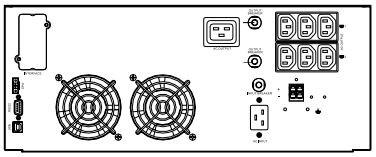
ODIN 1000 RT



ODIN 2000 RT



ODIN 3000 RT



# ODIN HARSH RT
# 1000 VA - 3000 VA

When you need to prevent a service outage and ensure safety and continuity in extreme conditions, you need a robust, highly reliable UPS.

- Built to guarantee efficiency and performance from -10°C to 55°C.
- 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.
- 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 principle 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.
- 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.
- The accurately calculated residual operating time is shown on the display.
- Two sets of IEC sockets that can be programmed separately.
- Cold start option without mains power.
- The 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.

## Applications

- All applications in harsh climate areas
- Industrial applications
- IT and telecoms (transmitting-and-receiving stations)
- Underground transport
- Traffic control
- Wind farms
- Electromedical equipment

## 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 switching with additional sockets.
- External batteries.

## Benefits

- Load protection at extreme temperatures from -10°C to 55°C.
- Batteries designed for extreme temperatures.

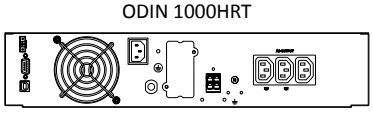

ODIN HARSH single-phase 1000–3000 VA

## ODIN HARSH RT TECHNICAL DATA SHEET

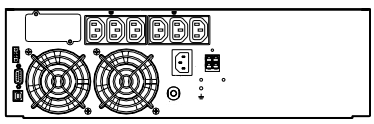
| MODEL | | | ODIN 1000HRT | ODIN 2000HRT | ODIN 3000HRT |
|---|---|---|---|---|---|
| POWER | VA | | 1000 | 2000 | 3000 |
| | W | | 900 | 1800 | 2700 |
| INPUT | Rated voltage* | | 110/150/180–300 Vac (-10°C to 40°C with percentage load: 0–60, 0–75, 0–100) 180–300 Vac (40°C to 55°C with 0–60% load) | | |
| | Frequency | | 44-66 Hz | | |
| | Power factor | | >0.99 | | |
| OUTPUT | Rated voltage | | 230 Vac, selectable to 200/208/220/230/240 (-10°C to 40°C) 230 Vac, selectable to 200/230/240 (40°C to 55°C) | | |
| | Voltage distortion | | <3% with linear load, <6% 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<br>1 x IEC C19 |
| EFFICIENCY | VFI mode | | up to 92% | | |
| | ECO mode | | up to 97% | | |
| GENERAL | Dimensions (LxDxH) mm | | 440x405x88 (2U) | 440xx432x132 (3U) | 440x432x176 (4U) |
| | Weight (kg) *** | | 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 | | AGM (maintenance-free lead) | | |
| | Uptime with internal battery in minutes | 50% load | 12 | 12 | 7 |
| | | 100% load | 4 | 4 | 2 |
| | Charging time (90%) | | 4–6 hours | | |
| | Battery expansion module dimensions (LxDxH) mm ** | | 440x430x88 (2U) | 440xx432x132 (3U) | 440x430x176 (4U) |
| ENVIRONMENTAL PARAMETERS | Operating temperature**** | | -10°C to 55°C (UPS without battery) -10°C to 50°C (UPS with battery) | | |
| | Relative humidity | | 0-90% (without 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. | | ≦50dB | | |
| CONNECTIVITY | Built-in communication ports | | USB, RS232, EPO and additional slots for optional cards | | |
| | User interface | | LED, LCD and function keys (parameters: voltage, frequency, percentage load, 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, UKCA | | |

* Depending on the load ** Power factor at temperatures from -10 to 40°C (the power factor is 0.6 with temperatures from 40 to 55°C)
*** Battery weight and configuration depends on the required uptime **** To be verified according to the battery parameters

ODIN 1000HRT



ODIN 2000HRT



ODIN 3000HRT