

# Ablerex RS Series On-line UPS

The Ablerex RS series on-line double conversion UPS with full-time digital single processor control technology is the cost-effective solution for mission critical users who demand high reliability and performance from a UPS.

- Advanced Digital Control Technology
- Programmable Parameter Setting
- Unity Input Power Factor
- Wide Input Voltage/Frequency Window
- Optional Power Shedding
- Emergency Shutdown Control through EPO
- Optional Powerful Charger
- Extended Runtime Capability
- Matching Battery Cabinet



# Ablerex RS On-line UPS Technical Specifications

| MODEL                        | ITEM                              | RS 1000   | RS 2000              | RS 3000              |
|------------------------------|-----------------------------------|---|----------------------|----------------------|
| CAPACITY                     | VA/W                              | 1000VA/900W   | 2000VA/1800W         | 3000VA/2700W         |
| INPUT                        | Voltage Range                     | 110Vac/140Vac/160Vac-300Vac<br>(Based on load percentage 0%~25% / 25%~50% / 50%~100%)   |                      |                      |
|                              | Frequency Range                   | 45Hz ~ 65Hz   |                      |                      |
|                              | Phase                             | Single phase with ground  |                      |                      |
|                              | Power Factor                      | ≥ 0.99 (with full linear load)  |                      |                      |
| OUTPUT                       | Voltage                           | 230V, adjustable to 200/208/220/230/240   |                      |                      |
|                              | Voltage Regulation                | ≤ ± 1% until low battery warning  |                      |                      |
|                              | Frequency<br>(Synchronized Range) | 3Hz or 1Hz (selectable)   |                      |                      |
|                              | Frequency (Battery mode)          | 50Hz/60Hz ± 0.1% unless synchronized to line  |                      |                      |
|                              | Current Crest Ratio               | 3:1 (acceptable)  |                      |                      |
|                              | Harmonic Distortion               | < 3% (at full load) ; < 6% (at full non-linear load)  |                      |                      |
| OVERLOAD CAPACITY            | Line mode / Battery mode          | <105% continuous, >106%~120% for 30 seconds transfer to bypass, >121%~150% for 10 seconds transfer to bypass, >150% for immediately transfer to bypass, Buzzer continuously alarms.   |                      |                      |
|                              | Bypass mode                       | <105% continuous, >106%~120% for 250 seconds shuts down, >121%~130% for 125 seconds shuts down, >131%~135% for 50 seconds shuts down, >136%~145% for 20 seconds shuts down, >146%~187% for 5~0.32 seconds shut down, >188% for 0.16 seconds shuts down, Buzzer continuously alarm |                      |                      |
| OVERALL EFFICIENCY           |                                   | ≥ 88%   |                      |                      |
| INTERNAL BATTERY             | Number of batteries               | 2   | 4                    | 6                    |
|                              | Battery type                      | 12V/7.2AH (Sealed, non-spillage, maintenance-free, lead acid)   |                      |                      |
|                              | Rated Battery Voltage             | 24Vdc   | 48Vdc                | 72Vdc                |
|                              | Backup time (half load/full load) | 10 ~ 30 minutes depending on loads  |                      |                      |
|                              | Recharge time (to 80%)            | ≤ 5 hours   |                      |                      |
|                              | Floating Charging Voltage         | 27.3Vdc ± 0.5V  | 54.6Vdc ± 0.5V       | 82.0Vdc ± 0.5V       |
| Bulk Charging Voltage        | 30.0Vdc ± 0.5V                    | 60.0Vdc ± 0.5V  | 90.0Vdc ± 0.5V       |                      |
| TRANSFER TIME                | AC to DC                          | 0ms   |                      |                      |
| DC START                     |                                   | Yes   |                      |                      |
| SELF DIAGNOSTICS             |                                   | By button of the panel or Software Control  |                      |                      |
| FRONT PANEL                  | Standard LED                      | Load Level/Battery Level/ Battery Mode/ Normal Mode/ Bypass Mode/ Self-Test/ Weak/Bad Battery/ Site Wiring Fault/ Fault/ Overload   |                      |                      |
|                              | Optional LED                      | Programmable Outlet 1 / Programmable Outlet 2   |                      |                      |
|                              | Optional LCD                      | Readings: Load Percentage (%), Battery Voltage (V), Input Voltage, Input Frequency, Output Voltage, Output Frequency, Output Current<br>Icon Indicators: Eco Mode, Utility Mode, Battery Mode, Service Mode, UPS Fault, Overload, UPS Status, UPS Outlets 1&2                     |                      |                      |
|                              | Button                            | ON/Alarm Silence Button / OFF Button / Test/Level Button  |                      |                      |
| AUDIBLE ALARM                | Battery Mode                      | Sounding once every 1.5 seconds   |                      |                      |
|                              | Low Battery                       | Sounding once every 0.2 seconds   |                      |                      |
|                              | Overload                          | Sounding once every 3 seconds   |                      |                      |
|                              | Normal alarm                      | Sounding once every 3 seconds   |                      |                      |
|                              | Fault                             | Continuously Sounding   |                      |                      |
| PROTECTION                   | Short Circuit                     | Bypass mode: FUSE,<br>Normal Mode: Output Breaker/Electronic Circuit,<br>Battery Mode: Output Breaker/Electronic circuit  |                      |                      |
|                              | Battery                           | Advance Battery Discharge Management  |                      |                      |
|                              | EPO                               | UPS shuts down immediately  |                      |                      |
|                              | Over Temperature                  | Normal mode: Transfer to Bypass Mode,<br>Battery Mode: UPS shuts down immediately   |                      |                      |
| PHYSICAL                     | Dimensions (H × W × D in mm)      | 220 × 144 × 360   | 322 × 152 × 438      | 322 × 190 × 438      |
|                              | Weight (kg)                       | 12  | 22                   | 27                   |
|                              | Outlet                            | (3) 10A, IEC 320-C13  | (6) 10A, IEC 320-C13 | (6) 10A, IEC 320-C13 |
| ENVIRONMENT                  | Operation Temperature             | 0-40°C  |                      |                      |
|                              | Noise Level                       | <50dBA  |                      |                      |
|                              | Relative Humidity                 | 0 to 90% (Without condensation)   |                      |                      |
| INTERFACE                    | Standards                         | RS232 port  |                      |                      |
|                              | Optional                          | Dry contact, 2 <sup>nd</sup> RS232, USB, SNMP/Web Card  |                      |                      |
|                              | Compatible platforms              | Microsoft Window series, Linux  |                      |                      |
| STANDARDS AND CERTIFICATIONS | Safety                            | IEC/EN62040-1-1   |                      |                      |
|                              | Performance                       | IEC/EN62040-3   |                      |                      |
|                              | EMC                               | IEC/EN62040-2 class A, FCC Part 15 Subpart B class A, IEC/EN55011, CISPR 11, IEC 61000-4-2/-3/-4/-5, IEC 61000-2-2, IEC 61000-3-2/-3  |                      |                      |
|                              | Markings                          | CE, FCC   |                      |                      |

Designed and  
Engineered by:

