

# A1 Series UPS<sub>1-3 kVA</sub> | Single phase

- Online
- Power Factor Correction

## ✓ RELIABLE & USER FRIENDLY

- SPWM inverter
- High input PF ( $\geq 0.99$ )
- Low output voltage THD ( $< 2\%$ )
- Wide input voltage tolerances (- 25%, +20%)
- Compatible with different load types
- Reduced weight/volume/footprint
- Cold start
- Energy-saving sleep mode
- Overload, short circuit, lightning and surge protection
- Generator compatibility
- Extended battery life with intelligent battery management
- Extra charger and battery cabinet for longer back-up time
- Automatic battery test
- LCD interface and LED operation mode indicator
- Remote monitoring panel (optional)
- Remote emergency power off (EPO)
- 128 event log
- Battery capacity and load percentage display
- SNMP (optional) and RS232 communication
- Remote monitoring and management software
- Dry contacts
- Smart fan control
- Internal battery
- Easy installation and maintenance
- 10 years spare part warranty
- 7/24 technical support and customer service

## ✓ STANDARDS

- EN 62040-1 (Safety)
- EN 62040-2 (EMC)
- CE, ISO 9001:2008, ISO 14001, GOST



ELECTRO-MEDICAL DEVICES



SMALL COMPUTERS NETWORK



TELECOM APPLICATIONS



CASH REGISTERS



E-BUSINESS (SERVERS FARMS, ISP/ASP/POP)



SERVERS



PERSONAL COMPUTERS



## A1 SERIES UPS TECHNICAL SPECIFICATIONS

|                   | Power (kVA)                    | 1   | 2               | 3        |
|-------------------|--------------------------------|---|-----------------|----------|
| INPUT             | Voltage                        | 220 / 230 / 240 Vac 1ph + N   |                 |          |
|                   | Voltage Tolerances             | - 25%, +20% (without downgrading)                                     |                 |          |
|                   | Frequency                      | 50 / 60 Hz (automatic detection)                                      |                 |          |
|                   | Frequency Tolerances           | ± 10%   |                 |          |
|                   | Power Factor                   | ≥ 0,99  |                 |          |
| OUTPUT            | Voltage                        | 220 / 230 / 240 Vac 1ph + N   |                 |          |
|                   | Voltage Tolerances             | ± 1% (static load), dynamic load in accordance with VFI-SS-11         |                 |          |
|                   | Frequency                      | 50 / 60 Hz  |                 |          |
|                   | Frequency Tolerances           | ± 0.1% (self-synchronize), ± 1% (mains-synchronize)                   |                 |          |
|                   | Power Factor                   | 0,7   |                 |          |
|                   | THD <sub>v</sub>               | ≤ 2% (linear load), ≤ 5% (non-linear load)                            |                 |          |
|                   | Crest Factor                   | 3:1   |                 |          |
| OVERLOAD CAPACITY | ≤ 110%                         | 30 min.   |                 |          |
|                   | ≤ 125%                         | 60 sec.   |                 |          |
|                   | ≤ 150%                         | 10 sec.   |                 |          |
|                   | > 150%                         | 3 sec.  |                 |          |
| EFFICIENCY        | Online                         | up to 92%   |                 |          |
| GENERAL           | Technology                     | True online-double conversion, PFC                                    |                 |          |
|                   | Control                        | Microprocessor, SPWM  |                 |          |
|                   | Communication                  | SNMP(optional), RS232   |                 |          |
|                   | Remote Monitoring              | SNMPView, UPSilon, Remote monitoring panel(optional)                  |                 |          |
|                   | Dry Contacts                   | Battery mode, Battery low   |                 |          |
|                   | Cold Start                     | Standard  |                 |          |
| ENVIRONMENT       | Operating Temperature          | from 0 °C up to +40 °C (from 20 °C to 25 °C for maximum battery life) |                 |          |
|                   | Relative Humidity              | 0% - 85% (without condensation)                                       |                 |          |
|                   | Maximum Altitude               | ≤ 2000 m  |                 |          |
|                   | Noise Level                    | < 45 dB (A)   |                 |          |
| UPS CABINET       | Dimensions (W x D x H) (mm)    | 155 x 400 x 225   | 195 x 460 x 380 |          |
|                   | Weight (kg)                    | 7,5   | 14              | 15       |
|                   | Degree of Protection           | IP20  |                 |          |
|                   | Colour                         | RAL7012   |                 |          |
| BATTERY           | Internal Battery Quantity      | 3   | 6               | 8        |
|                   | Internal Battery Capacity (Ah) | 7 - 9   |                 |          |
|                   | Eternal Battery Cabinet Socket | Optional  | Standard        | Standard |
| STANDARDS         | Safety                         | EN 62040-1  |                 |          |
|                   | EMC                            | EN 62040-2  |                 |          |
| UPS LIFETIME      |                                | 10 YEARS  |                 |          |