

# EP Series UPS

700/1000/2000/3000/6000 VA Tower / Rack

## EP 700-6000VA

The EP series UPS is a true VFI (Voltage & Frequency Independent) on line double conversion, intelligent, cost effective and high-performance UPS designed to suit a wide range of IT networking, telecom and process control applications.

The EP series UPS is microprocessor controlled and equipped with RS232 and USB as standard, and optional SNMP interfacing capability to provide power monitoring and management.

Hot swappable battery replacement by user, wide input voltage window, 50/60Hz auto sensing, selectable output voltage 220/230/240v, and Battery start (cold start) are also its advance features.

Longer runtime options and 19" rack mountable versions are available

### Feature & Benefit

- On-line double conversion technology assuring ultimate Power Quality.
- LED display - overload, on-line & battery status annunciation
- Fully digital microprocessor controlled
- Programmable computer shutdown
- Lightning and transient surge protection
- Optimized for use with generators
- Wide input voltage window
- Multiple user interface: RS232, USB, SNMP
- Plug & play
- Battery start (cold start)
- Automatic bypass switch
- Extended run time available

### Applications

- Servers, hubs, switches and routers
- PC and workstation
- Cash registers, fax, modem and ISDN adapters
- Network components
- Process and telecom industry equipment



## Technical Specification of EP Series

| Tower model                       | EP 700 T   | EP 700 LRT | EP 1000 T         | EP 1000 LRT | EP 2000 T         | EP 2000 LRT | EP 3000 T        | EP 3000 LRT | EP 6000 T                  | EP 6000 LRT |  |
|-----------------------------------|--|------------|-------------------|-------------|-------------------|-------------|------------------|-------------|----------------------------|-------------|--|
| 19" Rack mount model              | EP 700 R   |            | EP 1000 R         |             | EP 2000 R         |             | EP 3000 R        |             | EP 6000 R                  |             |  |
| <b>Performance</b>                |  |            |                   |             |                   |             |                  |             |                            |             |  |
| Power Rating (VA/W)               | 700/490  |            | 1000/700          |             | 2000/1400         |             | 3000/2100        |             | 6000/4200                  |             |  |
| Technology                        | On-line double conversion with automatic by-pass   |            |                   |             |                   |             |                  |             |                            |             |  |
| Input Voltage                     | 220/230/240Vac, 115~300Vac   |            |                   |             |                   |             |                  |             | 220/230/240Vac, 176~276Vac |             |  |
| Input Frequency                   | 50/60Hz auto sensing, 46Hz~54Hz/56~64Hz  |            |                   |             |                   |             |                  |             |                            |             |  |
| Input Power Factor                | 0.97   |            |                   |             |                   |             |                  |             | 0.98                       |             |  |
| Output Voltage                    | 220/230/240 Vac $\pm$ 2%   |            |                   |             |                   |             |                  |             |                            |             |  |
| Output Frequency                  | 50/60Hz $\pm$ 0.2Hz  |            |                   |             |                   |             |                  |             |                            |             |  |
| Overload Capacity                 | 110%: continuous; 130%: 30 sec then on bypass; 150%: 1 sec then on bypass                          |            |                   |             |                   |             |                  |             | 110%: 10 sec, 130%: 1 sec  |             |  |
| Efficiency                        | > 88% (On line model)  |            |                   |             |                   |             |                  |             |                            |             |  |
| <b>Battery</b>                    |  |            |                   |             |                   |             |                  |             |                            |             |  |
| Rating (V/ah)                     | 36/7   | 36/        | 36/7              | 36/         | 96/7              | 96/         | 96/7             | 96/         | 240/7                      | 240/        |  |
| Run-time at typical load          | 5 mins   |            | 5 mins            |             | 5 mins            |             | 5 mins           |             | 7 mins                     |             |  |
| Battery Test                      | Programmable automatic test (adjustable using EP software supplied)                                |            |                   |             |                   |             |                  |             |                            |             |  |
| Battery Mangement                 | Extended batt auto-recognition, automatic runtime adjustment and protection against deep discharge |            |                   |             |                   |             |                  |             |                            |             |  |
| <b>Input/Output Connection</b>    |  |            |                   |             |                   |             |                  |             |                            |             |  |
| Input                             | IEC 320 (3.5 A)  |            | IEC 320 (5 A)     |             | IEC 320 (10 A)    |             | IEC 320 (16 A)   |             | IEC 320 (30 A)             |             |  |
| Output (Tower)                    | 4 IEC 320 (3 A)  |            | 4 IEC 320 (4.2 A) |             | 6 IEC 320 (8.5 A) |             | 6 IEC 320 (13 A) |             | Terminal (26 A)            |             |  |
| Output (Rack)                     | 4 IEC 320 (3 A)  |            | 4 IEC 320 (4.2 A) |             | 4 IEC 320 (8.5 A) |             | 4 IEC 320 (13 A) |             | 4 + 1 terminal (26 A)      |             |  |
| <b>Power Management</b>           |  |            |                   |             |                   |             |                  |             |                            |             |  |
| Standard port                     | RS232 and USB  |            |                   |             |                   |             |                  |             |                            |             |  |
| Available slot                    | 1 slot for SNMP/web card   |            |                   |             |                   |             |                  |             |                            |             |  |
| Remote Power Off                  | YES with OS shut down software (standard)  |            |                   |             |                   |             |                  |             |                            |             |  |
| <b>Dimensions</b>                 |  |            |                   |             |                   |             |                  |             |                            |             |  |
| Tower (WxDxH, mm)                 | 145 x 400 x 220  |            |                   |             | 192 x 460 x 340   |             |                  |             | 260 x 570x 717             |             |  |
| Rack (WxDxH, mm)*                 | 483 x 420 x 88 (19", 2U)   |            |                   |             |                   |             |                  |             |                            |             |  |
| <b>Enviromental</b>               |  |            |                   |             |                   |             |                  |             |                            |             |  |
| Operating temperature             | 0°C~+40°C, recommended +20°C~+25°C   |            |                   |             |                   |             |                  |             |                            |             |  |
| Humidity                          | 0%~95%   |            |                   |             |                   |             |                  |             |                            |             |  |
| Storage temperature               | -15°C~+40°C  |            |                   |             |                   |             |                  |             |                            |             |  |
| Altitude                          | 0---1000m (nominal) , 1000---3000m (derating)  |            |                   |             |                   |             |                  |             |                            |             |  |
| Acoustic noise (1m to Frontpanel) | $\leq$ 45dB  |            | $\leq$ 45dB       |             | $\leq$ 50dB       |             | $\leq$ 50dB      |             | $\leq$ 55dB                |             |  |
| <b>Standards</b>                  |  |            |                   |             |                   |             |                  |             |                            |             |  |
| Approval                          | CE   |            |                   |             |                   |             |                  |             |                            |             |  |
| Safety                            | EN62040-1, IEC62040-1  |            |                   |             |                   |             |                  |             |                            |             |  |
| EMC                               | EN62040-2 Class B  |            |                   |             |                   |             |                  |             | EN62040-2 I/P current >25A |             |  |

\* Rack 700/1000: internal battery, Rack 2000/3000/6000, battery housed in external cabinet with same dimension as main UPS unit.

| SKU   | Product    | SKU   | Product     | SKU   | Product     | SKU   | Product     | SKU   | Product     |
|-------|------------|-------|-------------|-------|-------------|-------|-------------|-------|-------------|
| 18547 | EP 700 T   | 18548 | EP 1000 T   | 18549 | EP 2000 T   | 18580 | EP 3000 T   | 18581 | EP 6000 T   |
| 18587 | EP 700 R   | 18588 | EP 1000 R   | 18589 | EP 2000 R   | 18590 | EP 3000 R   | 18591 | EP 6000 R   |
| 18582 | EP 700 LRT | 18583 | EP 1000 LRT | 18584 | EP 2000 LRT | 18585 | EP 3000 LRT | 18586 | EP 6000 LRT |



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