

E20 - Single Phase UPS

Industrial Uninterruptible Power Supply Systems 5kVA to 100kVA



The E20 UPS system is designed as a cost effective industrial product and utilises the latest in power conversion switching technology to provide all types of critical loads with absolute power security and isolation from power line disturbances and interruptions.

This active-on-line UPS system provides the critical load at all times with stabilised voltage and frequency from its high performance PWM inverter. The modular and flexible design makes use of IGBT inverter, rectifier and static switch modules which enable us to configure systems to suit the individual needs of customers.

The E20 UPS system is provided with digital or analogue metering and a mimic panel is provided to show the operational status and alarm conditions. Serial interfaces are available for remote monitoring of the UPS and, upon request, supervisory software is available for monitoring by computer.

Major options

- Customised input and output voltage and frequency
- Emergency bypass line isolation transformer
- Emergency line AC/AC voltage stabilizer
- Additional RFI filters
- Redundant ventilation fans
- 12 pulse rectifier
- Remote monitoring via SPDT contacts
- Remote monitoring via PC
- Parallel redundant and “hot stand by” configuration
- Nickel Cadmium or lead acid batteries
- Special painting and protection degree
- IBM AS400 interface card
- Output distribution panels
- DC bus voltage 120V or 240V

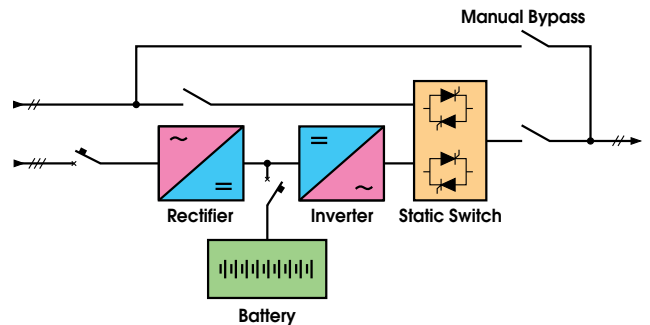


POWER SYSTEMS INTERNATIONAL



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Technical characteristics

| Size (kVA) cosphi = 0.8 | 5 | 10 | 15 | 20 | 30 | 40 | 50 | 5 | 10 | 15 | 20 | 30 | 40 | 50 | 60 | 80 | 100 |
|----------------------------|--|------|------|------|------|------|------|------|-----------------------------|------|------|------|------|------|------|------|------|
| Dimensions (mm) W | 600 | 600 | 600 | 600 | 800 | 800 | 800 | 600 | 600 | 600 | 600 | 800 | 800 | 800 | 800 | 800 | 800 |
| Dimensions (mm) H | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 | 2100 |
| Dimensions (mm) D | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 | 800 |
| Weight (kg) | 340 | 360 | 450 | 490 | 520 | 560 | 620 | 350 | 365 | 375 | 395 | 505 | 575 | 600 | 625 | 660 | 700 |
| Efficiency (%) | 86 | 87 | 88 | 88 | 88 | 89 | 89 | 88 | 88 | 88 | 90 | 90 | 92 | 92 | 93 | 93 | 93 |
| Input AC Voltage | 3Ph. 400V +/- 10% (other as option) 50 - 60Hz +/- 5% | | | | | | | | | | | | | | | | |
| By pass Line Input Voltage | 1Ph.230V AC +/- 10% or 115V AC +/- 10% (according to inverter output voltage) | | | | | | | | | | | | | | | | |
| Battery Voltage | 110V DC (Range 95-165V DC) | | | | | | | | 220V DC (Range 176-325V DC) | | | | | | | | |
| Harmonic Distortion | <1.5% with linear load <5% with non linear load CF 3:1 | | | | | | | | | | | | | | | | |
| Frequency | 50-60Hz (selectable) with variation range +/- 2Hz | | | | | | | | | | | | | | | | |
| Overload | 110%Pn for 2h - 125%Pn for 10 min. - 150% In for 10 sec. (load on inverter) 150% Pn continuous (load on by pass line) | | | | | | | | | | | | | | | | |
| Static Stability (V) | +/- 1% (load on inverter) | | | | | | | | | | | | | | | | |
| Dynamic Stability (V) | +/- 5% with recovery to 2% in 40ms | | | | | | | | | | | | | | | | |
| Noise Level 1m(dBA) | <65 | | | | | | | | | | | | | | | | |
| Protection Degree | IP20 (other as option) | | | | | | | | | | | | | | | | |
| Colour | RAL 7032 (other as option) | | | | | | | | | | | | | | | | |
| Operating Ambient | 0-40°C | | | | | | | | | | | | | | | | |

Standards

| | |
|-------------------------------|---------------------------|
| Low voltage assemblies | IEC 439-1, 439-2,439-3 |
| Semiconductor converters | IEC 146-1-1,146-1-3,146-2 |
| Degree of protection | IEC 529 |
| Safety | EN 50091-1 |
| Electromagnetic compatibility | EN 50091-2 |
| Power transformers | IEC 76 |



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