

POWER⁺ SA

10kVA On-Line Double Conversion UPS

UPS

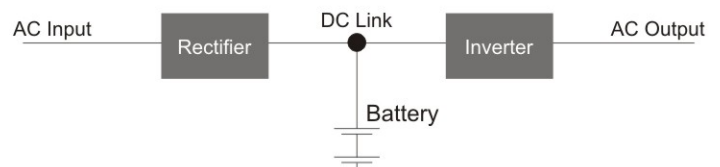


Unique Features:

- > Flexible use - available in 3/3, 3/1 and 1/1
- > Unique design - light and compact only 18KG electronic cabinet!
- > High efficiency AC/AC: 96%
- > Low input THDi: 5%
- > Input PF > 0.99
- > Back light LCD
- > Exclusive Feature for Data Processing Machine

Double Conversion True On-Line Battery (VFI)

According to IEC 62040-3



SMARTER. GREENER. FASTER.

Technology Associates:



Our Power Your Confidence

Technical Specifications

| | | | |
|---|--|-------------------|-------------------------|
| POWER + SA 10 kVA | 3/3 | 3/1 | 1/1 |
| Topology | True On-line Battery, Double Conversion | | |
| INPUT | 3 phase + N | | Single phase + N |
| Voltage | 3 × 400V + N | | 230V, 1 phase + N |
| Current | 15 A per phase, no inrush current at startup | | |
| Voltage Range | - 20% , + 15% | | |
| Frequency | 47 - 63Hz | | |
| Power Walk-in | > 60 sec | | |
| Power Factor | > 0.99 | | |
| THD i | 5% on nominal load | | |
| OUTPUT | | | |
| Rated Power | 10kVA/8kW | | |
| Frequency Tracking Range | ± 3 Hz | | |
| Slew Rate | 1Hz/sec | | |
| Voltage | 3 × 400V + N | 230V, 1 phase + N | 230V, 1 phase + N |
| Static Regulation | ± 1% | | |
| Regulation for unbalanced Load | ± 1% for 100% Unbalanced load | | |
| Dynamic Response to 100% Load Step | ± 2% | | |
| Overload | 110% for 10 min; 125% for 60 sec; 1000% for 1 cycle | | |
| Waveform | Sinusoidal | | |
| THD | < 2% for linear load, < 5% for non linear load | | |
| Load CF | 3:1 | | |
| DC / AC Efficiency (nominal) | Up to 98% | | |
| AC / AC Efficiency (nominal) | Up to 96% | | |
| STATIC SWITCH (bypass) | | | |
| Input Connection | Dual Input | | |
| GENERAL | | | |
| Maximum Power Dissipation (Po=8kW) | 333W (1136 BTU/h) | | |
| Ambient Temperature | 10 to + 40 Deg C (Operating) ; -20 to + 60 Deg C (Storage) | | |
| Relative Humidity | 95% max non-condensation | | |
| Altitude | 1500 without derating | | |
| Enclosure | IP 20 | | |
| Cooling System | Multi-Fan with speed control (forced) | | |
| Acoustic Noise (Full load) @1.5m distance | 47 dBA | | |
| Dimension (H x W x D) (mm) | 560 x 90 x 600 | | |
| Weight (electronic cabinet) | 18 Kg. | | |
| COMMUNICATION | | | |
| RS 232 | Yes | | |
| Alarm - Shutdown Monitor | Yes | | |
| SNMP - GMaCi | Optional | | |
| LCD DATA DISPLAY | | | |
| Input | Voltage, Current, Frequency | | |
| Output | Voltage, Current, Frequency | | |
| Batteries | Voltage | | |
| Log event memory | Last 200 events | | |
| STANDARDS | | | |
| EMC | EN50091-2 Class A; IEC 62040-2 Class A | | |
| Safety | E50091-1; IEC 62040-1-1 | | |
| Design | EN50091-3; IEC 62040-3 | | |
| Low Magnetic Field Radiation | EMF as per ICNIRP | | |
| BATTERIES (external) | | | |
| Type | Sealed Maintenance Free (SMF) VRLA, Tubular lead acid | | |
| DC-Link Voltage | ± 340 to 425V | | |
| Number | 12V, 64 nos. | | |
| Battery Recharge Time | Approx. 6 to 8 hrs. | | |

■ All specifications are subject to change without prior notice.

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An ISO 9001-2000 Company

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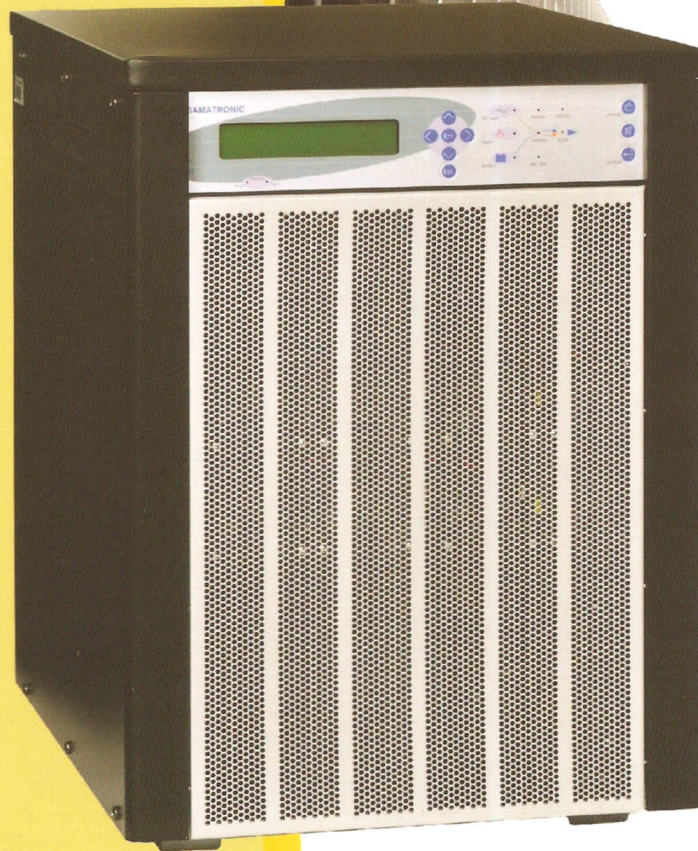
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POWERTRON

POWER+ SA

20kVA, 30kVA, 40kVA UPS

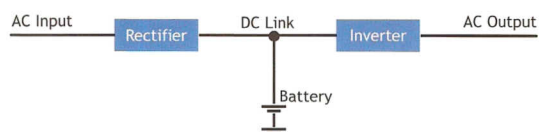


ON-LINE DOUBLE CONVERSION UPS True on-line battery

- Available in 3/3
- Unique light and compact design-only 68kg!
- Great performance:
 - › High efficiency AC/AC:96%
 - › Low input THDi:5%
 - › Input PF:0.99
 - › Back light LCD
 - › 10kVA redundancy inverters and rectifiers
 - › Exclusive feature for data processing machine

Double Conversion True On-Line Battery (VFI)

According to IEC 62040-3



Technology Associates:

**GAMATRONIC ELECTRONIC
INDUSTRIES LTD. ISRAEL**



Specifications

| Power+ SA UPS | 20kVA | 30kVA | 40kVA |
|---|---|-----------------|------------------|
| Topology | True Online Battery, Double Conversion | | |
| INPUT | 3 Phase+N | | |
| Voltage | 3x400 V + N, 45-65Hz | | |
| Voltage Range | -20% , +20% | | |
| Power Walk-in | > 60sec | | |
| Power Factor | 0.99 | | |
| THDI | 5% | | |
| Earth Leakage Current | 3mA max | | |
| OUTPUT | 3 Phase+N | | |
| Rated Power | 20kVA/16KW | 30kVA/24KW | 40kVA/32KW |
| Frequency Tracking Range | ±1, ±2, ±3Hz(selectable) | | |
| Slew Rate | 1Hz/Sec | | |
| Voltage | 3x400 V + N;50Hz | | |
| Static Regulation | ± 1% | | |
| Regulation for Unbalance Load | ±1% for 100% Unbalance load | | |
| Dynamic Response to 100% Load Step | 2% | | |
| Overload | 110% for 10 min.; 125% for 60 sec.; 1000% for 1 Cycle | | |
| Waveform | Sinusoidal | | |
| THD | Less than 2% for linear load | | |
| Load CF (max) | upto 6:1 | | |
| DC/AC Efficiency (nominal) | 98% | | |
| AC/AC Efficiency (nominal) | 96% | | |
| STATIC SWITCH (bypass) | | | |
| Input Connection | Dual Input | | |
| GENERAL | | | |
| Maximum Power Dissipation | 666W (2272 BTU) | 999W (3408 BTU) | 1332W (4544 BTU) |
| Ambient Temperature | -10° to 40° (operating); -20° to +70° (storage) | | |
| Relative Humidity | 95% max non-condensation | | |
| Altitude | 1500 without derating | | |
| Enclosure | IP 20 | | |
| Cooling System | Multi-Fan with speed control (forced) | | |
| Acoustic Noise (Full load) @1.5m distance | 48dBA | | |
| MTBF | 250,000 hrs | | |
| Dimensions (HxWxD)(mm) | 660 x 480 x 580 | | |
| Weight (electronic cabinet) | 68Kg (max) | | |
| COMMUNICATION | | | |
| Rs232 | YES | | |
| Alarm - Shutdown Monitor | YES | | |
| SNMP | Option | | |
| LCD DATA DISPLAY | | | |
| Input | Voltage, Frequency, Current | | |
| Output | Voltage, Frequency, Current | | |
| Batteries | Voltage | | |
| Log (events memory) | Last 256 Events | | |
| STANDARDS | | | |
| EMC Emission | EN50091-2 Class A; IEC 62040-2 | | |
| EMC Immunity | EN50082-2 | | |
| Safety Design | EN50091-1; IEC 62040-1-1 EN50091-3; IEC 62040-1-3 | | |
| Low Magnetic Field Radiation | EMF as per ICNIRP | | |
| BATTERIES (external) | | | |
| Type | Sealed, Valve regulated, lead-acid | | |
| Number | 64x12V | | |

*All specification are typical subject to change without prior notice

UPS/10/Power+SA

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