

PROTECT C.

SINGLE PHASE IN / OUT UPS SYSTEM

Uninterruptible Power Supply

1-Phase Input; 1-Phase Output

1000–10000 VA power supply
with integrated batteries



High-performance UPS system for IT applications

Thanks to genuine VFI technology (online/double conversion), Protect C. is suitable for all critical business applications.

The proven VFI topology of Protect C. protects against all network problems as a matter of principle. A sinus-shaped power feed is achieved under all load conditions at the input.

Highly integrated switches and a robust IGBT module reduce the number of electrical connections and components and therefore provide for increased reliability. A static bypass switch (SBS) and/or an automated bypass ensure additional safety in case of overload.

Maximum control

The bar displays for UPS load and battery capacity, as well as the clear pictogram of the system components provide information on the essential operating conditions.

Data is transmitted through an RS232 interface. With an optional SNMP (PRO) adapter, remote monitoring via a web browser and multi-server shutdown are possible.

The special AEG shutdown software "CompuWatch" is of course included.

Switchable in parallel

Protect C. 6000 and C. 10000 offer the possibility of parallel operation. Both active redundancy and higher availability are achieved with higher power requirements being taken into account.

The combination of power increase and active redundancy is also possible, as up to 3 devices can be switched in parallel.

Protect C. meets the highest security and availability requirements and allows for an economical implementation.

Main characteristics

- » VFI topology (online/double conversion) protects against all network problems
- » Micro processor control/digital signal processors for maximum availability
- » Sinus-shaped power feed (high-frequency pulse width modulation with IGBTs)
- » Static bypass switches (SBS) for Protect C. 6000 and C. 10000, additionally integrated maintenance bypass
- » n+x technology for Protect C. 6000 and C. 10000 for redundancy and performance increase
- » Extension slot for SNMP, potential-free contacts, remote panel
- » Also available as an S-version with reinforced charging rectifier
- » 36-month warranty with replacement service in advance (free registration required)

| | | | | | |
|---|--|-----------------|-------------------|-------------------------------------|---------------------|
| Classification VFI SS 211 acc. to IEC 62040-3 | C. 1000 | C. 2000 | C. 3000 | | |
| Classification VFI SS 111 acc. to IEC 62040-3 | | | | C. 6000 | C. 10000 |
| Power type rating | 1000 VA | 2000 VA | 3000 VA | 6000 VA | 10000 VA |
| | 700 W | 1400 W | 2100 W | 4200 W | 7000 W |
| | | | | Parallel connection | Parallel connection |
| Part number (UPS including integrated battery system) | 600 000 5735 | 600 000 5736 | 600 000 5738 | 600 000 5877 | 600 000 5878 |
| Part number (battery pack) | 600 000 5739 | 600 000 5740 | 600 000 5740 | 600 000 5879 | 600 000 5880 |
| Part number (UPS S-version) | 600 000 4337 | 600 000 4338 | 600 000 4339 | 600 000 4340 | 600 000 4341 |
| UPS INPUT | | | | | |
| Input voltage | 220 V AC / 230 V AC / 240 V AC | | | | |
| Voltage range without battery mode | 160 – 300 V AC | | | 176 – 276 V AC | |
| Frequency (auto selection) | 50 Hz / 60 Hz ±4 Hz | | | | |
| Mains current (system reaction) | $\lambda \geq 0.96$ | | | $\lambda \geq 0.98$ | |
| Current consumption at nominal load (max.) | 7 A | 10 A | 16 A | 31 A | 50 A |
| UPS OUTPUT | | | | | |
| Rated output voltage (adjustable) | 220 V AC / 230 V AC / 240 V AC ±2 % | | | 220 V AC / 230 V AC / 240 V AC ±1 % | |
| Frequency in battery mode | 50 Hz / 60 Hz ±0.2 % | | | | |
| Output current (at 230 V AC) | 4.3 A | 8.7 A | 13 A | 26 A | 43.4 A |
| Transfer time at mains outage | 0 ms (without interruption) | | | | |
| Voltage waveform | Sinusoidal, distortion THD <4 % | | | | |
| Overload response (online operation) | <150 % for 30 s / 150 % for 300 ms | | | <130 % for 10 min. / 130 % for 1 s | |
| | Subsequent, transfer to bypass mode | | | | |
| Crest factor | 3 : 1 | | | | |
| Short circuit response | Short circuit proof (3 x I _n for 140 ms) | | | | |
| BATTERY | | | | | |
| Type | Sealed, maintenance free, integrated (proprietary brand) | | | | |
| Rated voltage (linked) | 36 V DC | 96 V DC | | 240 V DC | |
| Overload/ deep discharge protection | Yes | | | | |
| Charging time (to 90 % rated capacity) | 5 h | | | 7 h | |
| COMMUNICATION | | | | | |
| Interfaces | RS232 (with status display and data), communications slot for SNMP, potential free relay contact | | | | |
| Shutdown software (on CD) | 5 network licenses for all common OS (e.g. Windows, Linux, Mac) | | | | |
| Failure indicators (acoustic/visual) | LED display for UPS summary /battery capacity display, status display Indicators for mains failure, overload, battery charging, battery replacement, failure | | | | |
| GENERAL DATA | | | | | |
| Efficiency AC – AC (at nominal load) | ≥85 % | | ≥88 % | ≥90 % | |
| Audible noise (1 m distance) | <45 dB(A) | | <50 dB(A) | <55 dB(A) | |
| Operating temperature range | 0° – 40°C | | | | |
| Humidity | 0 – 90 % (without condensation) | | | | |
| Operation altitude | Up to 1000 m at nominal load | | | | |
| EMC conformity | EN 62040-2 Class C1, EN 61000-3-2, EN 61000-3-3 | | | EN 62040-2 Class C3 | |
| Product safety | EN 62040-1 | | | | |
| Data line protection | RJ11 (telephone, fax, modem) / RJ45 (Ethernet 10 Mbit /s / 100 Mbit /s) | | | | |
| Number of outputs | 4 x IEC 320 C13 | 6 x IEC 320 C13 | 4 x IEC 320 C13 | Secured terminal block | |
| | | | + 1 x IEC 320 C19 | | |
| Equipment color | Blackline | | | | |
| Dimensions approx. W x H x D (mm) UPS | 145 x 220 x 400 | 192 x 340 x 460 | | 260 x 720 x 570 | |
| Dimensions approx. W x H x D (mm) battery | Integrated (not S-version battery pack same dimensions as UPS) | | | | |
| Weight approx. UPS | 15 kg | 34 kg | 35 kg | 90 kg | 93 kg |
| Weight approx. battery | 19 kg | 52 kg | 52 kg | 65 kg | 68 kg |
| Shipment | Mains input cord, 3 device cords (Type C. 1000, C. 2000, C. 3000), parallel management cable (C. 6000 / C. 10000), management software "CompuWatch" (CD), communications cable, operating instructions | | | | |
| Conformity | CE | | | | |