

Features

- CPSS is a real native Central Power Supply System and respects all the requirements of the law for emergency and security systems.
- Easy installation: the smallest footprint CPSS, EN 50171 fully compliant.
- Wide range of audible and visual alarm alerts for example: battery reverse, charger short circuit, power failure, low battery, bypass transfer, CPSS fault, etc.
- Max efficiency (up to 98%), and flexibility thanks to the 4 function operating modes (Mixed mode kit is optional).
- Mixed mode (On-line and Emergency mode) require optional accessories.
- Dual input and internal manual bypass: the maintenance can be done in a simple and completely safe way.
- High overload capacity: it provides 120% permanent power capability.
- Build in up to 40 battery 9Ah to have a compact solution for small load application (only for 10-20kVA with optional battery tray kit).
- Protection against battery polarity inversion and short circuit at load side to avoid any issue during

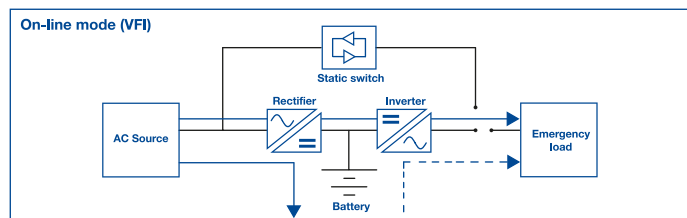
commissioning, even after polarity inversion there is no risk to damaged battery fuses.

- High charge current with temperature compensation reduces recharge time and increase battery life.
- Accurate calculated remaining uptime is shown on the display.
- Hot-swappable batteries: the external batteries can be replaced while the CPSS is running.
- High flexibility thanks to internal charger easy settable from the Touch Screen LCD.
- 10 years lifetime battery.
- IP20 casing, resistant to heat and fire, made in accordance with the EN 60598-1 standard enclosure.
- Firmware can be upgraded easily.
- Built in: RS232, USB, EPO and 2 slot for optional communication cards.

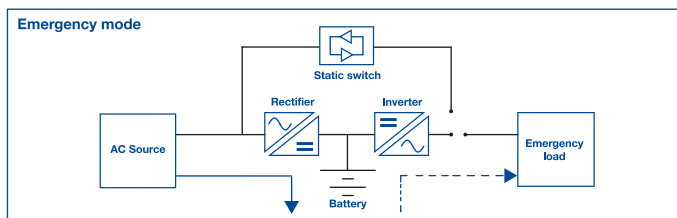
Key options

- Cards: SNMP, RS485-ModBus and dry contact relay ports.
- Parallel Kit
- Battery tray kit
- Mixed mode kit
- Battery cabinet compliant with EN 50272-2.

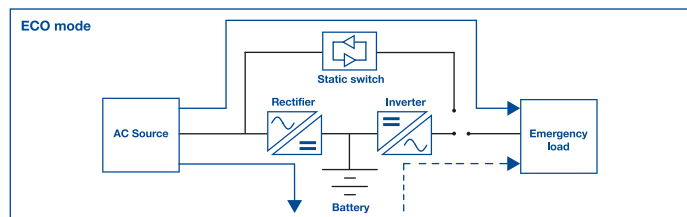
FUNCTION OPERATING MODES



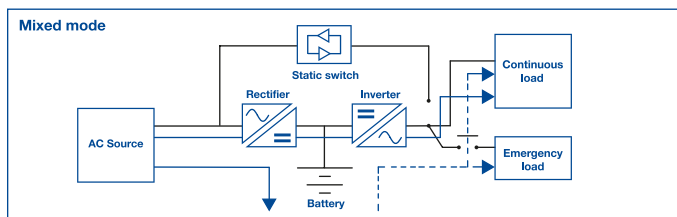
The load is always supplied by the inverter.



The load is supplied by the inverter when the mains fails or is out of tolerance.



The load is supplied by the bypass in normal operation and by the inverter during the mains failure or when the mains is out of tolerance.



One load is always supplied by the inverter while the other is supplied by the inverter only when there is a mains failure or when the mains is out of tolerance (On-line mode + Emergency mode with separated output terminals). Mixed Mode kit optional is required.

CPSS THREE-PHASE 10 KVA - 40 KVA

THE SMALLEST FOOTPRINT CENTRAL POWER SUPPLY SYSTEM (CPSS), FULLY COMPLIANT EN 50171

CPSS three phase is designed to guarantee the highest degree of protection in critical environments for all the emergency installations for peace of mind of the consultant, reseller, installer, and end-user.

| MODEL | | CPSS 3P 10 KVA | CPSS 3P 20 KVA | CPSS 3P 30 KVA | CPSS 3P 40 KVA |
|--------------------------|---|---|-------------------|----------------|----------------|
| POWER | kVA | 10 | 20 | 30 | 40 |
| | kW | 9 | 17 | 27 | 33 |
| INPUT | Rated voltage | 400 Vac three-phase with neutral | | | |
| | Voltage tolerance | ±20% | | | |
| | Rated frequency | 40 – 70 Hz | | | |
| | Power factor | ≥0.99 | | | |
| | Current distortion (THDi) | ≤ 4% at full load | ≤ 3% at full load | | |
| OUTPUT | Rated voltage | 380/400/415 V three-phase+neutral | | | |
| | Voltage stability | ±1% (static load) | | | |
| | Frequency | 50/60 Hz | | | |
| | Frequency stability | ±0.01% (free running) | | | |
| | Power factor | 0.9 | 0.85 | 0.9 | 0.825 |
| | Crest factor | 3:1 | | | |
| | Voltage distortion | ≤2% with linear load, ≤5% with distorting load | | | |
| | Overload | ≤120% Continue Operation, 125% for 10 minutes, 150% for 1 minute | | | |
| EFFICIENCY | VFI mode | Up to 95% | | | |
| | ECO mode | Up to 98% | | | |
| | In battery | Up to 94% | | | |
| GENERAL | Parallel connection | Up to 6 units | | | |
| | Dimensions (WxDxH) mm | 260x850x890 (including wheels) | | | |
| | Weight (kg) | 74 | 76 | 85 | 88 |
| | Protection class | IP 20 | | | |
| BATTERY | Number per string (batt 12V) | 40 pcs | | | |
| | Common battery for parallel configuration | Supported | | | |
| | Internal battery* | Housing available for 40 x 12V 7/9 Ah batteries | | N.A. | |
| | Max charging current** | 12.9 A | 14.5 A | 24.7 A | 28 A |
| | Cold start | Standard | | | |
| BYPASS | Rated voltage | 380/400/415 V three-phase+neutral | | | |
| | Voltage tolerance | Basic window ±10% (programmable ±5% – ±15%) | | | |
| | | Critical window ±25% (programmable ±16% – ±30%) | | | |
| | Frequency | 50/60 Hz | | | |
| | Frequency tolerance | ±1 Hz / ±3 Hz (selectable) | | | |
| Protection | Fuses | | | | |
| ENVIRONMENTAL PARAMETERS | Operating temperature*** | 0–40°C | | | |
| | Altitude | <1000 m without power derating, >1000 with 1% derating every 100 m | | | |
| | Relative humidity | 0–95% (non-condensing) | | | |
| | Audible noise at 1 m. | <52dB | | <55dB | |
| CONNECTIVITY | User interface | 4.3" colour LCD touch screen display with removable SD card | | | |
| | Built-in communication ports | USB, RS232, EPO, 1 in/3 out dry contact relays (programmable) and additional slots for optional cards | | | |
| | Optional accessories | Cards: SNMP, RS-485 ModBus, 6 in/6 out dry contact relays, touch panel for remote monitoring | | | |
| REGULATIONS | Standards | EN 50171, IEC EN 62040-1, IEC EN 62040-2, IEC EN62040-3 | | | |
| | Marking | CE, UKCA | | | |

* optional battery tray kit required ** at nominal input voltage and 100% load *** to be verified according to the battery parameters