

EG-CPSS 1/1 4000 – 10000 VA

Central Power Supply System, fully EN 50171 compliant certified by third party
CPSS designed to ensure the highest degree of protection in the critical environments of all emergency system installations.

Applications

- Emergency lightning
- Fire alarm systems
- Smoke extraction systems
- Gas and smoke detection systems
- Security alarm systems
- PAV Voice Systems
- Lone Worker Systems

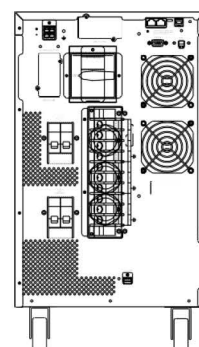


Features

- Fully EN 50171 compliant with third party test certificate, EG-CPSS is a real Central Power Supply System that meets all legal requirements for the protection of emergency and safety systems.
- Easy to install: smallest footprint among EN 50171 compliant products.
- Wide variety of audible and visual alarms including: battery polarity reversal, EG-CPSS and battery charger short circuit, power failure, low battery, bypass transfer, EG-CPSS fault.
- Cold start from the battery without mains power.
- Maximum efficiency (up to 98%) and flexibility thanks to the 4 operating modes.
- The single-phase version includes mixed, online and SE modes with separate outputs, while the three-phase version requires optional accessories.
- Dual input and internal manual bypass for simple, completely safe maintenance.
- High overload capacity: delivers up to 120% of the rated power indefinitely.
- Easy and fast connection guaranteed by the terminals, which have been enlarged in the single-phase version.
- Option of internal battery with housing for 40 9Ah batteries for three-phase 10 and 20 kVA models (with optional tray kit only), giving a compact solution for small-load applications.
- Protection against load-side short circuits and battery polarity reversal, without the risk blowing fuses during commissioning, even in the event of reversal.
- Shorter charging time and longer battery life thanks to high charge current with temperature compensation.
- Accurate calculated remaining uptime is shown on the display.
- Hot-swappable batteries: the batteries can be replaced while the EG-CPSS is running.
- Greater flexibility offered by the internal charger that is easy to set from the display.
- Battery life of 10 years.
- Heat and fire resistant IP20 casing that is EN 60598-1 compliant.
- Easily upgradeable firmware.
- RS232, USB and EPO ports built-in, and slots for optional communication cards. Remote on/off available in the single-phase version.

Key options

- Cards: SNMP, RS485 ModBus and relay card with dry contacts.
- EN 50272-2 compliant battery cabinet.
- Additional battery charger for long runtimes.



Single-phase
EG-CPSS 4-6 kVA
EG-CPSS 8-10 kVA

PMA_EG-CPSS_1 / PMA01250827

ELTECO GROUP, s. r. o.

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Contact data:

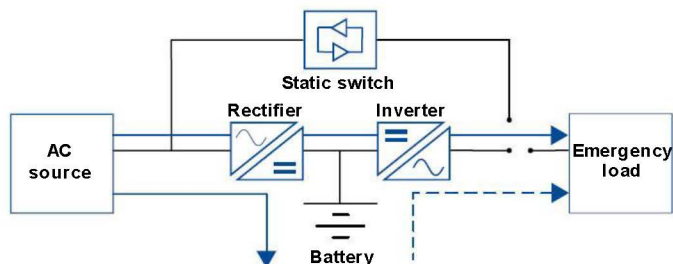
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Operating mode

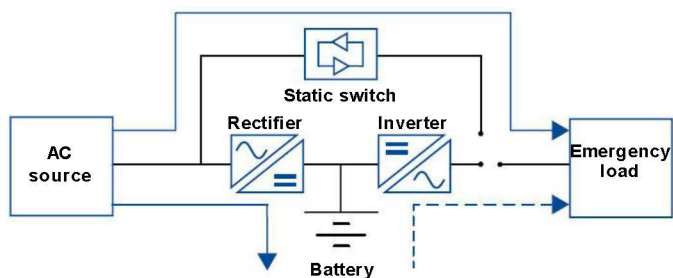
Online mode (VFI)

The load is always powered (SA) by the inverter.



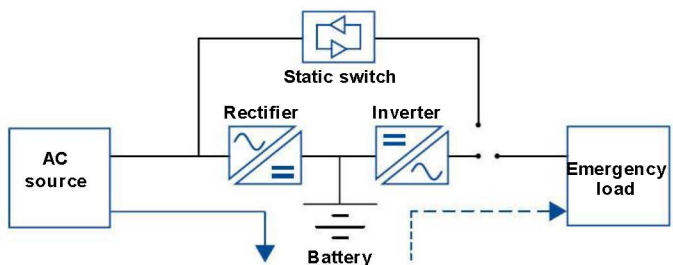
ECO mode

The load is powered by the bypass during normal operation and by the inverter when there is no mains or it is out of tolerance.



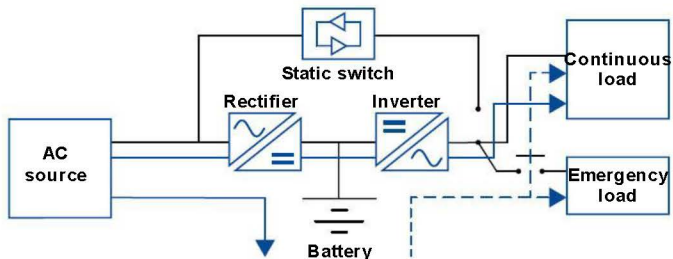
Emergency mode (SE)

The load is only powered by the inverter when there is no mains or it is out of tolerance.



Mixed mode

One load is always powered by the inverter, while the other load is only powered by the inverter when there is no mains or it is out of tolerance (SA and SE with separate outputs).



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Technical Data Sheet

Model	EG-CPSS 4000	EG-CPSS 6000	EG-CPSS 8000	EG-CPSS 10000
Power [VA]	4000	6000	8000	10000
Power [W]	3500	5250	7000	8500
INPUT				
Rated voltage ¹⁾	110 – 280 Vac			
Frequency	45 - 70 Hz			
Power factor	> 0.99			
Current distortion (THDi)	< 5%			
OUTPUT				
Rated voltage	200/208/220/230/240 Vac selectable			
Voltage distortion	<2% with linear load, <7% with distorting load			
Voltage stability	±1 %			
Frequency	50 / 60 Hz (selectable)			
Frequency regulation	±1Hz, ±3Hz selectable			
Frequency stability	≤0.2% (free running)			
Power factor	0.875			0.85
Crest factor	3:1			
Waveform	Pure sine wave			
Output connection	Screw terminal block			
Capacity @ 100% load	4000 VA / 3500 W	6000 VA / 5250 W	8000 VA / 7000 W	10000 VA / 8500 W
Overload @ 120% permanent load	4200 VA / 4200 W	6300 VA / 6300 W	8400 VA / 8400 W	102000 VA/10200 W
EFFICIENCY				
VFI mode	Up to 93%			
ECO mode	Up to 97%			
In battery	Up to 94%			
GENERAL				
Dimensions (WxDxH) mm	288x700x513			
Weight (kg)	41		42	
Alarms	Audible and visual alarm alerts for: incorrect battery polarity, short circuit, power failure, low battery, bypass transfer, and UPS fault, etc.			
Protection	Battery polarity, short circuit, overload, overheating, deep discharge, overcharging.			
Operating mode	Multimode: VFI, ECO, Emergency (SE), Mixed mode (SA and SE with separate outputs).			
Cold start from the battery without mains power	Included			
Protection class	IP20			
BATTERY – CHARGER				
Battery type	12V VRLA, AGM (maintenance-free lead)			
Number of batteries	20 units (120 cells)			
Charging time	80% of the battery capacity within 12h			
Internal battery charger	4 A Standard (additional 4 A with optional kit)			
External battery cabinet connections	Plug-in & Play			
ENVIRONMENTAL PARAMETERS				
Operating temperature ²⁾	0 - 40°C			
Relative humidity	0% - 90% (without condensing)			
Altitude (a.s.l.)	< 1000 m with no power derating, > 1000 m with 1% derating for every 100 m			
Audible noise at 1 m	≤60 dBA			
CONNECTIVITY				
Built-in communication ports	USB, RS232, EPO On/Off contact, and additional slots for optional cards			
User interface	LCD and function keys (parameters: voltage, frequency, load percentage, battery voltage, output voltage, estimated uptime, UPS temperature).			
Optional accessories	Cards: SNMP, RS485 ModBus, dry relay contacts			
Compatible software platforms	Microsoft Windows, Linux, Mac OS, VMware			
REGULATIONS				
Standards	EN 50171, IEC EN 62040-1, IEC EN 62040-2, IEC EN 62040-3			
Marking	CE, UKCA			

Notes: 1) Subject to conditions.

2) To be verified according to the battery parameters.

Specifications subject to change without notice.

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