

EG-CPSS 3/3 10 – 40 kVA

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

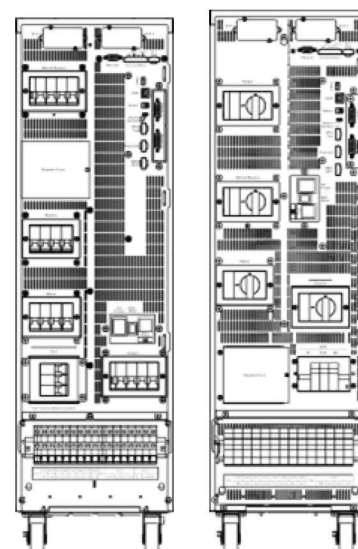


Features

- 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.
- 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.
- 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.

Key options

- Cards: SNMP, RS485 ModBus and relay card with dry contacts.
- EN 50272-2 compliant battery cabinet.
- Parallel kit.
- Mixed mode kit.



Three-phase EG-CPSS
10-20 kVA 30-40 kVA

PMA_EG-CPSS_3 / PMA01250827

ELTECO GROUP, s. r. o.

Horný Val 8/17
010 01 Žilina
SLOVAKIA

Contact data:

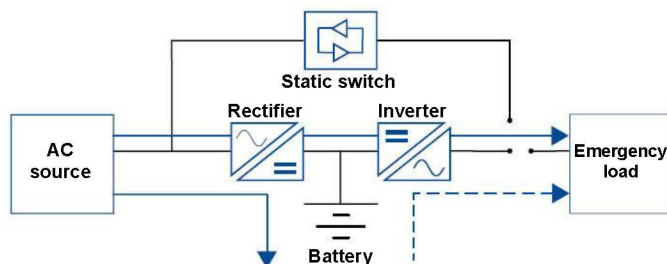
Mobile: +421 903 463 248
e-mail: info@elteco-group.sk
www.elteco-group.sk



Operating mode

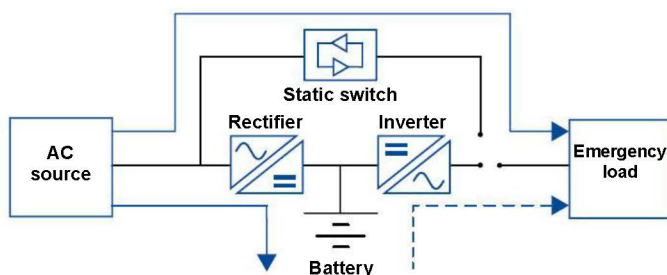
Online mode (VFI)

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



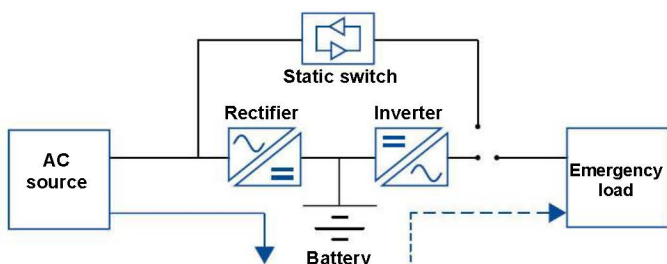
ECO mode

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.



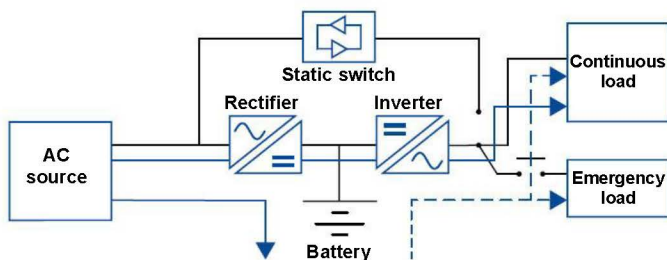
Emergency mode (SE)

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).



EG-CPSS_3/3

ELTECO GROUP, s. r. o.

Horný Val 8/17
010 01 Žilina
SLOVAKIA

Contact data:

Mobile: +421 903 463 248
e-mail: info@elteco-group.sk
www.elteco-group.sk





Technical Data Sheet

Model	EG-CPSS 10 kVA	EG-CPSS 20 kVA	EG-CPSS 30 kVA	EG-CPSS 40 kVA
Power [kVA]	10	20	30	40
Power [kW]	9	17	27	33
INPUT				
Rated voltage	400 V three-phase with neutral			
Voltage tolerance	±20%			
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 with 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			
Permissible overload	120% permanent load, 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
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 w/o mains	Included			
Protection class	IP20			
BATTERY				
Number pre string (12V)	40 pcs			
Common battery for parallel configuration	Supported			
Internal battery (optional)	Up to blocks 40 12V 7/9Ah batteries		N.A.	
Max. charging current ¹⁾	12.9 A	14.5 A	24.7 A	28 A
Cold start from the battery w/o mains	Included			
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 ²⁾	0 - 40°C			
Relative humidity	0 – 95% (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	≤52 dBA		≤55 dBA	
CONNECTIVITY				
Built-in communication ports	USB, RS232, EPO, 3 out dry relay contacts (programmable) and two additional slots for optional cards			
User interface	4.3" color LCD touch screen display with removable SD card			
Optional accessories	Cards: SNMP, RS485, ModBus, 6 in/6 out dry relay contacts, touch panel for remote monitoring, Mixed mode kit			
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.

EG-CPSS_3/3

ELTECO GROUP, s. r. o.

Horný Val 8/17
010 01 Žilina
SLOVAKIA

Contact data:

Mobile: +421 903 463 248
e-mail: info@elteco-group.sk
www.elteco-group.sk

