



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

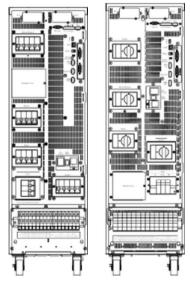
- Emergency lightning
- Fire alarm systems
- Smoke extraction systems
- Gas and smoke detection systems
- Security alarm systems
- PAV Voice Systems
- Lone Worker Systems

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

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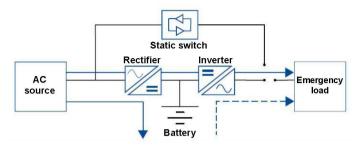




Operating mode

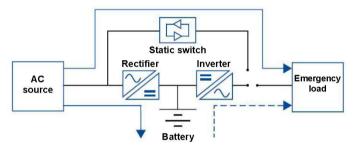
Online mode (VFI)

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



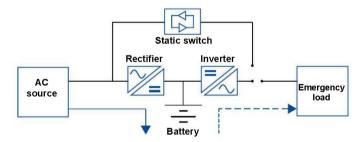
ECO mode

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.



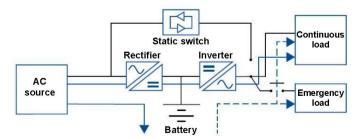
Emergency mode (SE)

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).



EG-CPSS 3/3

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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-pha	ase with neutral	
Voltage tolerance		±2		
Frequency		40 - 7	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	e-phase with neutral	
Voltage stability		±1% (sta	ntic load)	
Frequency		50 / 6		
Frequency stability		±0.01% (fre	ee 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	<u> </u>		a at the fraction tension of the state and another	DC 34 603 55 844 (10 24 8
VFI mode		Up to	95%	
ECO mode	Up to 98%			
In battery	Up to 94%			
GENERAL	-	3p (0		
Parallel connection		Up to	6 units	
Dimensions (WxDxH) mm		260x850x890 (ir		
Weight (kg)	74	76	85	88
Alarms	Audible and visual a	alarm alerts for: incorrec low battery, bypass tran	t battery polarity, short o	ircuit, power failure,
Protection	Battery polarity, short circuit, overload, overheating, deep discharge, overcharging.			
Operating mode	Multimode: VFI, ECC	D, Emergency (SE), Mixe		th separate outputs).
Cold start from the battery w/o mains		Inclu		
Protection class		IP	20	
BATTERY				
Number pre string (12V)	40 pcs			
Common battery for parallel configuration	Supported			
Internal battery (optional)	11 1 11 1 40 4	01/7/04/1/1	K I	
internal battery (optional)	Up to blocks 40 1	2V 7/9Ah batteries	N.	Α.
	12.9 A	2V 7/9An batteries 14.5 A	24.7 A	A. 28 A
Max. charging current 1) Cold start from the battery w/o mains			24.7 A	T .
Max. charging current 1) Cold start from the battery w/o mains BYPASS	12.9 A	14.5 A Inclu 380/400/415 V thr	24.7 A ided ee-phase+neutral	28 A
Max. charging current ¹⁾ Cold start from the battery w/o mains BYPASS Rated voltage	12.9 A	14.5 A Inclu	24.7 A ided ee-phase+neutral	28 A
Max. charging current ¹⁾ Cold start from the battery w/o mains BYPASS Rated voltage	12.9 A	14.5 A Inclu 380/400/415 V thr	24.7 A ided ee-phase+neutral grammable ±5% – ±15%	28 A
Max. charging current ¹⁾ Cold start from the battery w/o mains BYPASS Rated voltage Voltage tolerance	12.9 A	14.5 A Inclu 380/400/415 V thr Basic window ±10% (pro	24.7 A ided ree-phase+neutral grammable ±5% – ±15% grammable ±16% – ±30	28 A
Max. charging current 1) Cold start from the battery w/o mains BYPASS Rated voltage Voltage tolerance Frequency	12.9 A	14.5 A Inclu 380/400/415 V the Basic window ±10% (projitical window ±25% (projitical window)	24.7 A uded ee-phase+neutral grammable ±5% – ±15% grammable ±16% – ±30 0 Hz	28 A
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Max. charging current 1) Cold start from the battery w/o mains BYPASS Rated voltage Voltage tolerance Frequency Frequency tolerance Protection ENVIRONMENTAL PARAMETERS Operating temperature 2)	12.9 A	14.5 A Inclu 380/400/415 V the Basic window ±10% (progritical window ±25% (progritical window ±1 Hz / ±3 Hz	24.7 A ided gee-phase+neutral grammable ±5% - ±15% grammable ±16% - ±30 O Hz z (selectable) ses 10°C	28 A
Max. charging current 1) Cold start from the battery w/o mains BYPASS Rated voltage Voltage tolerance Frequency Frequency tolerance Protection ENVIRONMENTAL PARAMETERS Operating temperature 2) Relative humidity	12.9 A E Cr	14.5 A Inclu 380/400/415 V thr Basic window ±10% (propitical window ±25% (propitical window ±25 Hz / ±3 Hz 6 - 95% (witho	24.7 A ided gee-phase+neutral grammable ±5% - ±15% grammable ±16% - ±30 O Hz z (selectable) ses i0°C ut condensing)	28 A
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Max. charging current 1) Cold start from the battery w/o mains BYPASS Rated voltage Voltage tolerance Frequency Frequency tolerance Protection ENVIRONMENTAL PARAMETERS Operating temperature 2) Relative humidity Altitude (a.s.l.) Audible noise at 1 m	12.9 A E Cr	14.5 A Inclu 380/400/415 V the Basic window ±10% (progritical window ±25% (progritical window ±25 Hz / ±3 Hz - 4 0 - 95% (without no power derating, > 10	24.7 A ided gee-phase+neutral grammable ±5% - ±15% grammable ±16% - ±30 O Hz z (selectable) ses i0°C ut condensing) 00 m with 1% derating f	28 A 6) %) or every 100 m
Max. charging current 1) Cold start from the battery w/o mains BYPASS Rated voltage Voltage tolerance Frequency Frequency tolerance Protection ENVIRONMENTAL PARAMETERS Operating temperature 2) Relative humidity Altitude (a.s.l.) Audible noise at 1 m CONNECTIVITY	12.9 A E Cr < 1000 m with ≤52	14.5 A Inclu 380/400/415 V thi Basic window ±10% (projectical window ±25% (withow ±10 - 95% (withow no power derating, > 10 dBA D, 3 out dry relay contact	24.7 A ided ee-phase+neutral grammable ±5% - ±15% grammable ±16% - ±30 0 Hz z (selectable) ses io°C ut condensing) 00 m with 1% derating f ≤55 ss (programmable) and t	28 A 6) %) or every 100 m dBA
Max. charging current 1) Cold start from the battery w/o mains BYPASS Rated voltage Voltage tolerance Frequency Frequency tolerance Protection ENVIRONMENTAL PARAMETERS Operating temperature 2) Relative humidity Altitude (a.s.l.) Audible noise at 1 m CONNECTIVITY Built-in communication ports	12.9 A E Cr < 1000 m with ≤52 USB, RS232, EPC	14.5 A Inclu 380/400/415 V thi Basic window ±10% (projectical window ±25% (withow the projectical window ±25% (projectical window ±25% (withow the projectical window ±25% (withow the projectical window ±25% (projectical window ±25% (withow the projectical window ±25% (projectical w	24.7 A ided ree-phase+neutral grammable ±5% - ±15% grammable ±16% - ±30 0 Hz z (selectable) ses 10°C ut condensing) 00 m with 1% derating f ≤55 ss (programmable) and thal cards	28 A 6) %) or every 100 m dBA wo additional slots
Max. charging current 1) Cold start from the battery w/o mains BYPASS Rated voltage Voltage tolerance Frequency Frequency tolerance Protection ENVIRONMENTAL PARAMETERS Operating temperature 2) Relative humidity Altitude (a.s.l.) Audible noise at 1 m CONNECTIVITY Built-in communication ports User interface	12.9 A E Cr < 1000 m with ≤52 USB, RS232, EPC 4.3" cc	14.5 A Inclu 380/400/415 V thi Basic window ±10% (projectical window ±25% (without the second without the second window = 10 cm second without the second with	24.7 A ided ree-phase+neutral grammable ±5% - ±15% grammable ±16% - ±30 0 Hz z (selectable) ses io°C ut condensing) 00 m with 1% derating f ≤55 s (programmable) and t hal cards isplay with removable S dry relay contacts, touc	28 A 6) %) or every 100 m dBA wo additional slots D card
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Max. charging current 1) Cold start from the battery w/o mains BYPASS Rated voltage Voltage tolerance Frequency Frequency tolerance Protection ENVIRONMENTAL PARAMETERS Operating temperature 2) Relative humidity Altitude (a.s.l.) Audible noise at 1 m CONNECTIVITY Built-in communication ports User interface Optional accessories REGULATIONS Standards	12.9 A E Cr < 1000 m with ≤52 USB, RS232, EPC 4.3" cc Cards: SNMP, RS	14.5 A Inclu 380/400/415 V thi Basic window ±10% (projectical window ±25% (without the second without the second window = 10 cm second without the second with	24.7 A Ided Ided Idee-phase+neutral Igrammable ±5% - ±15% Igrammable ±16% - ±30 Idea Hz Idea Condensing) Idea Condensing) Idea Condensing Idea Conde	28 A 6) %) or every 100 m dBA wo additional slots D card th panel for remote

Notes: 1) Subject to conditions.

2) To be verified according to the battery parameters.

Specifications subject to change without notice.

EG-CPSS_3/3

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