ELLEGO

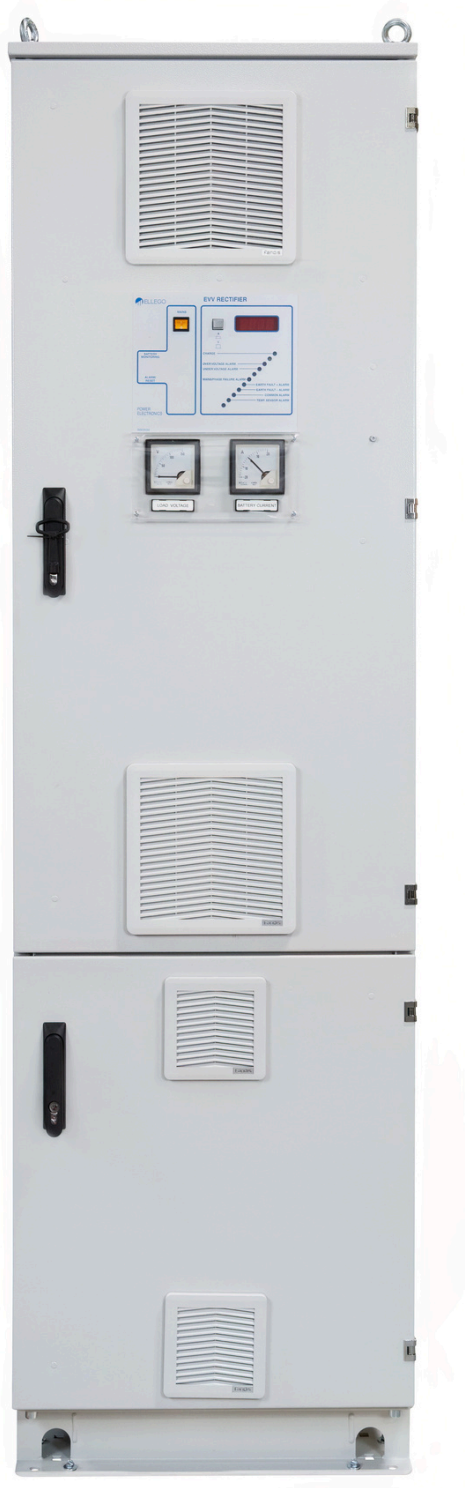
UNINTERRUPTIBLE POWER SUPPLY (DC-UPS)

EDC-V

Power System for Marine Applications

Thyristor based DC-UPS for demanding marine and offshore applications.

- DNVGL type approved version available (110 V / 3-18 A / 26 Ah)
- Installed in over 300 vessels around the world
- Can be equipped with basic control unit or optionally with VELA™ - charger monitoring unit



On board applications include:

- Engine control consoles
- Emergency generator start circuits
- Emergency lighting systems
- Drilling systems
- Fire detection systems
- Switchboards

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Electrical characteristics:	
Input voltage	230-480 VAC +/- 10 %, 50/60 Hz
Output voltage range	24-220 Vdc
Output current range	3-600 Adc
Charging curve	IU
Float-charge voltage	1.00-1.2 x Un
Boost-charge voltage	1.00-1.2 x Un
Current limiting	0.7-1 x In
Ambient temperature	0 ... +40°C
Static stability	+ 1 % or better
Output ripple voltage	< 4 % without battery pack (typically < 2 %)
Battery pack	Maintenance-free batteries. Capacity according to customer specifications.
Colour	RAL 7035, other colours on request
Distribution	MCB, fuse link or switch fuse. Number and size according to customer specifications.
Marine society certificate	According to customer specifications (such as DNV GL, LRS, ABS, BV, KRS, RINA)

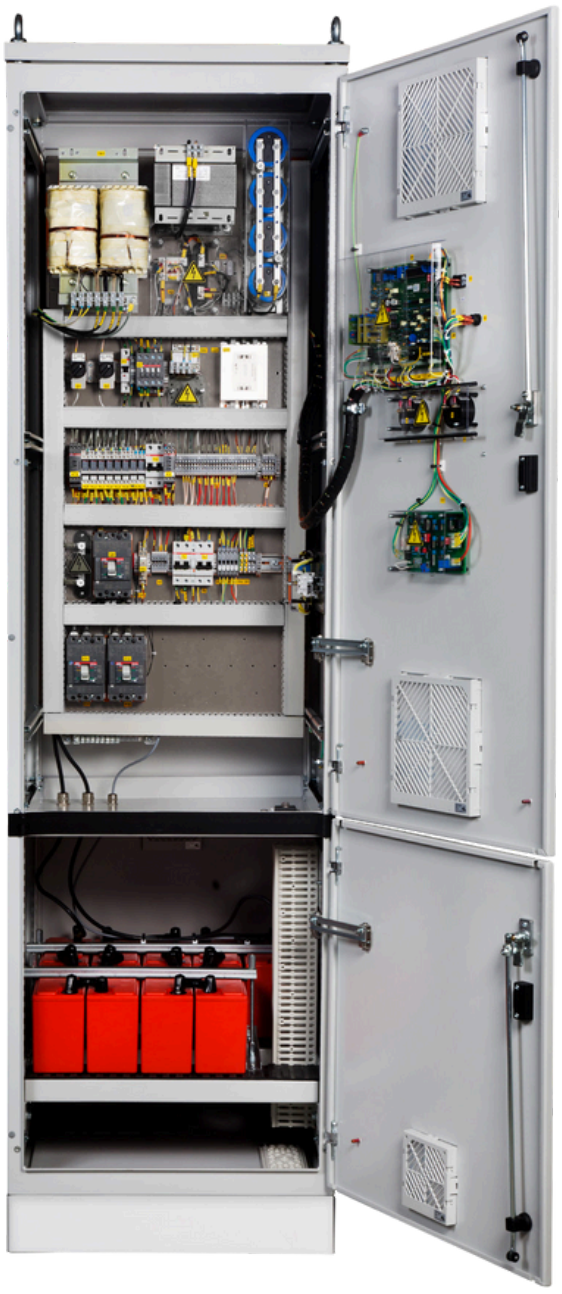
Accessories:

Main switch with indicator light, float-/boost-charge switch, combined V/A meter, automatic boost-charge, common alarm relay for remote monitoring of alarms, remote voltage measurement of battery pack terminals for compensating cable losses, float-charging, boost-charging

Monitoring / alarms:
Overvoltage
Undervoltage
Output fuse fault
Main/phase fault
Charger fault

Options:	
MH	Ground fault monitoring
BV	Battery pack monitoring
KV	Float-charge voltage additional monitoring (+/- 2 %)
IR	Charge voltage temperature compensation
LH	Individual alarm relay outputs
LS	Additional output voltage filter (rippel < 1 %)
UIP	Stepless current and/or voltage control with panel potentiometers

Standards:	
Design / electrical	EIEC 60146-1-1, IEC 60146-1-3
EMC	IEC 61000-6-2, IEC 61000-6-4 and IEC 61000-6-5



Protection for cybersecurity threats is implemented according to the IEC 62443-4 for security class 1 and device type embedded. The requirement for the local secure operation environment applies (system level). This device supports TCP/IP/Ethernet based wired digital communication. Wireless communication is not implemented. This device does not process or store sensitive information. For cybersecurity related inquiries, and reporting vulnerabilities or incidents, please contact **cert@ellego.fi**

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