



EDC power system for Marine Applications

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



Technical data:

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 to +40°C
Static stability	< ± 1%
Output ripple voltage	< 4% without battery pack and < 1% with battery pack
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

Accessories:

Mains 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

Mains/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 (ripple below 1%)
UIP	Stepless current and/or voltage control with panel potentiometers

Standards:

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

Marine EDC power system can be equipped with standard charger monitor unit or optionally with VELA- charger monitoring unit.

On board applications include:

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



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