JOVYATLAS

Immer unter Strom

# JOVYSTAR OCEAN

## PRODUCT LEAFLET

UPS systems of the JOVYSTAR OCEAN series offer optimal protection for critical consumer loads on board of vessels and are available with a power range of 5 up to 200 kVA. The systems use the online mode (double converter technology VFI-SS-111) and are manufactured due to customers' requirements and in accordance with the respective class of vessel. The robust three-phase or single-phase UPS systems JOVYSTAR OCEAN are especially suitable to secure navigation, radio, communication, lighting etc. on board.

### ONLINE UPS SYSTEM

As online systems (double converter technology). JOVYSTAR OCEAN UPS systems protect against system interferences and failures of any kind in a secure and economic way.

### RELIABLE ON BOARD TECHNOLOGY

UPS Systems of the JOVYSTAR OCEAN series are available with a performance range of 5 up to 30 kVA (3-ph. input/ 1-ph. output) or 5 up to 200 kVA (3-ph. input/output). The micro-process-driven monitoring of the inverter, rectifier and static bypass as well as of the battery guarantee the high operational safety of our vessel UPS systems. Automatic fault memory enables the precise localisation of the failure even at a later date. A built-in RS 232 interface offers the possibility of remote maintenance or error analysis via satellite or cell phone. The standard RS 485 interface enables a connection to an optionally available remote display. Also optional is the SNMP-capable surveillance software for installation on the PC network on board.

### INDIVIDUALLY CUSTOM-BUILT

Each vessel UPS system is individually manufactured for the respective class of vessel and in accordance with the consumer loads to be supplied. We use only robust steel sheet cabinets approved by the classification society. Installing the electronics we ensure easy to service assembly of the structural components. All structural components are accessible via the front and can be exchanged in just a few moves in order to reduce maintenance costs.

### TYPE OVERVIEW

### JOVYSTAR OCEAN

| | Power [kVA] | Phases | UPS System Dimensions [mm] W X H X D | Battery cabinet Dimensions [mm] W X H X D] | Autonomy times [min] |
|---|---|---|---|---|---|
| JOVYSTAR OCEAN 3/1 | 5 - 30 | 3:1 | 800 x 1970 x 800 | 600 x 2170 x 800 | 30 |
| JOVYSTAR OCEAN 3/3 | 5 - 30 | 3:3 | 800 x 1970 x 800 | 600 x 2170 x 800 | 30 |
| JOVYSTAR OCEAN 3/3 | 40 | 3:3 | 800 x 1970 x 800 | 600 x 2170 x 800 | 30 |
| JOVYSTAR OCEAN 3/3 | 60 | 3:3 | 800 x 1970 x 800 | 1200 x 2170 x 800 | 30 |
| JOVYSTAR OCEAN 3/3 | 80 | 3:3 | 800 x 1970 x 800 | 1200 x 2170 x 800 | 30 |
| JOVYSTAR OCEAN 3/3 | 100 | 3:3 | 800 x 1970 x 800 | 1800 x 2170 x 800 | 30 |
| JOVYSTAR OCEAN 3/3 | 120 | 3:3 | 1200 x 1970 x 800 | 1800 x 2170 x 800 | 30 |
| JOVYSTAR OCEAN 3/3 | 150 | 3:3 | 1200 x 1970 x 800 | 2400 x 2170 x 1000 | 30 |
| JOVYSTAR OCEAN 3/3 | 200 | 3:3 | 1200 x 1970 x 800 | 3000 x 2170 x 1000 | 30 |

further autonomy times on request

## TECHNICAL DATA

**The technical data of our vessel UPS systems JOVYSTAR OCEAN are custom specific and adaptable to the individual needs and different ship types.**

| | JOVYSTAR OCEAN 3:1<br>5 - 30 kVA | JOVYSTAR OCEAN 3:3<br>5 - 200 kVA |
|---|---|---|
| **INPUT:** | | |
| Voltage | according to customer request | |
| Phases | single-phase (3:1) | three phases (3:3) |
| Frequency | 50 Hz / 60 Hz ± 5 Hz | |
| Effficiency | >0,99 | |
| Distortion | <4 % (PFC) | |
| **OUTPUT:** | | |
| Voltage | according to customer request | |
| Frequency | 50 Hz (60 Hz) | |
| Power factor | cos phi = 0,9 inductive | |
| THDI | < 2% linear load<br>< 5% non-linear load ati 75% NP | |
| DC Voltage | 720 V (2 x 360 V) | |
| Short time load | 125 % for 10 min. 200 % for 100 ms,<br>1000 % for 1 period via bypass | |
| Crest Factor | 3:1 | |
| **SETTINGS:** | | |
| Protection degreee | IP 23<br>further protection classes on request | |
| Classification | VFI SS 111 | |
| Temperature | UPS System: 0°C up to +45°C<br>Battery: 0°C up to +25°C; optimal +20 °C | |
| Humidity | < 95 % (without condensation) | |
| Radio Interference | acc EN 50091-2, class „A“ | |

## COMMUNICATION:

All system data can be accessed via an RS 232 / USB interface. An RS485 interface is useable for remote control - optional system data can be transmitted via SNMP adapter or Modbus adapter, Profibus, etc.

## CLASSIFICATIONS:

Classifications according to DNVGL, Lloyds Register of Shipping, American Bureau of Shipping, Bureau Veritas, R.I.N.A. and further more

**ONLINE UPS SYSTEM**
VFI /Double Converter Technology offers maximum safety for connected Consumer Loads

**CUSTOMER SPECIFIC CONSTRUCTION ACCORDING TO SHIP CLASSIFICATION**
All Classifications possible

**COMFORTABLE OPERATION**
and simple service

**INTERFACES RS 232 AND RS 485**
for monitoring of all system data/ remote monitoring

**VIBRATION PROOF**
robust assembly and shock-resistant

**DUAL SUPPLY** of MSB and ESB

Fig. 1 JOVYSTAR OCEAN