JOVYATLAS

Immer unter Strom

JOVYTEC PNT

PRODUCT LEAFLET

UPS systems of type JOVYTEC PNT offer optimal protection for critical consumer loads on board of vessels or yachts. They are available with outputs of 1000 VA, 1500 VA, 2000 VA and 3000 VA. The UPS JOVYTEC P NT 1 kVA and 2 kVA are featuring type approvals according to the DNVGL and Bureau Veritas and meeting the Product Standard IEC / EN 60945 and IACS Type Test Specification E10.

SECURE POWER SUPPLY ONBOARD VESSELS AND YACHTS

UPS Systems have evolved in recent years as absolutely essential for the supply of critical consumers on board. In case of failure of the electrical system, important systems such as emergency lighting, radio, navigation, automation and communication have to be kept in operation for a specified period. Construction of such UPS Systems has to consider special ship building codes of the respective classification society. UPS Systems for vessels are custom-made depending on the particular ship to be supplied.

ONLINE UPS SYSTEM

As online systems (double converter technology) JOVYTEC PNT UPS systems protect against system interferences and failures of any kind in a secure and economic way. The connected onboard consumer loads are supplied constantly with a given frequency. Thus the input frequency can vary between 45 and 65 Hz. The systems of the JOVYTEC PNT series are equipped with a five-language display with vast display options for voltage, frequency, battery status and capacity utilisation of the UPS system.

OPERATING MODES

The easily accessible and user-friendly operation panel allows the selection between four different operating modes: Online Mode, Green Mode, Free Running Mode and Generator Mode. In Online Mode the connected equipment is continously supplied through the inverter in accordance with VFI-SS-111. The inverter delivers sinusoidal voltage grade 02. The power supply to the equipment is not interrupted even in case of power failure.

EASY TO SERVICE

The batteries of the JOVYTEC PNT UPS systems can be easily replaced via front side of the device. The entire battery pack can be replaced during active operation with low effort.

TYPES JOVYTEC PNT

	Dimensions W x H x D [mm]	Weight [kg]	Autonomy times at 100 % load [min]
JOVYTEC PNT 1000	152 x 238 x 420	11.9	10
JOVYTEC PNT 1500	152 x 238 x 420	12.9	6
JOVYTEC PNT 2000	225 x 360 x 425	32.2	8
JOVYTEC PNT 3000	225 x 360 x 425	33	5

TECHNICAL DATA

Power	1000 VA	1500 VA	2000 VA	
cos phi 0,7 ind.	700 W	1050 W	1400 W	

INPUT

Voltage	230 V standard, further voltages on request input voltage range: 168 - 276 V (0-100 % load) 140 - 159 V (0-70 % load) 120 - 139 V (0-40% load)			
Current	3,6 A	5,7 A	7,7 A	10,7 A
Phases	single phased			
Frequency	50 Hz / 60 Hz ± 3 Hz			
Power factor	0,98			
Battery	maintenance-free, sealed lead - acid batteries			
Autonomy times	with batteries integrated in UPS			
at 100 % load	10 min	6 min	8 min	5 min
at 80 % load	15 min	10 min	13 min	12 min
at 50 % load	27 min	23 min	28 min	23 min
Direct current link voltage	36 V	36 V	72 V	72 V

OUTPUT

Voltage	230 V standard (208/220/240 V via panel adjustable); further voltages on request
Frequency	50 Hz / 60 Hz automatic adjustment by UPS
Efficiency	cos phi 0,7 ind.
THD	<3% at linear load
Overload capacity	100 up to 125 % for 60 s, 125 - 150 % for 10 s
Crest Factor	3:1

SETTING

Noise level in approx. 1 m distance	<45 dB(A)	<50 dB(A)	<50 dB(A)	<50 dB(A)
Temperature	0°C up to 45°C (15°C up to 25°C recommended, battery: 20°C)			
Humidity	0 % up to 95 %, no condensation			
Communication	RS 232 interface			

STANDARD FEATURES

Electronical emergency stop possibility via potential-free contact
External battery connection for later enhancements
Power factor correction for sinusoidal current consumption
Acknowledgeable alarm

OPTIONS

Multiplexer, relay card, fixed terminal connector, USB port, software, manual bypass, SNMP adapter

ONLINE UPS SYSTEM FOR MARINE APPLICATION
VFI /Double Converter Technology offers maximum safety for connected consumer loads

TYPE APROVED AND SCHOCK RESISTANT

4 OPERATION MODES
selectable via control panel

ACTIVE POWER FACTOR CONTROL
guarantees sinusoidal power consumption

INTERFACES
RS 232 Interface

POWER RELATED FAN CONTROL
protects against overheating

ALARM SIGNALS
via acknowledgeable signal buzzer

EASY BATTERY EXCHANGE

Fig.1 JOVYTEC PNT