



# NETYS RT-M

Solution for marine applications  
from 1100 to 3000 VA

Single-phase UPS

GAMME 2400 A



## The solution for

- > Steering systems
- > Bridge systems
- > Radar systems
- > Control systems
- > Video surveillance systems

## Certifications



### High availability in marine environments

The marine industry calls for reliable equipment which is able to supply applications operating in harsh environments. In such a context, power outages cause extremely serious problems to critical equipment for the navigation system, and communication and engine controls, which leads to costs increasing. In line with the company's commitment to develop innovative solutions to ensure availability, improve energy efficiency and reduce costs, SOCOMEC UPS has introduced NETYS RT-M, high-performance UPS DNV 2.4 standard certified.

### DNV - Det Norske Veritas

DNV is a self-governing, independent foundation which aims to safeguard life, property and the environment, at sea and onshore. DNV undertakes classification, certification, and other verification and consultancy services relating to the quality of ships, offshore units and installations, and onshore industries worldwide, and carries out research in relation to these functions.

### Easy to use

- Easy configurable frequency converter operation (50 Hz, 60 Hz).
- No configuration necessary on first startup.
- Wide range of communication protocols (including TCP/IP and SNMP) for integration into LAN networks or building management systems (BMS).

### Meets practical needs

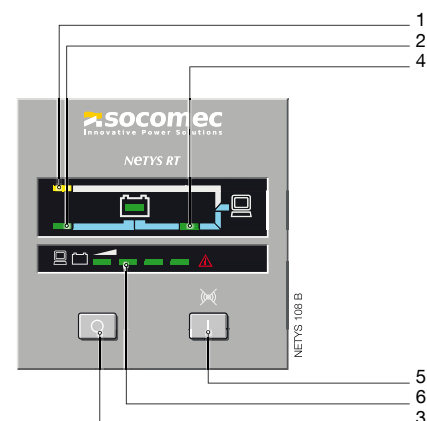
- Online double conversion technology with sinusoidal waveform, to completely filter out all disturbances from / to the mains power supply and to ensure maximum protection of the equipment.
- Optional battery extension modules (EBM) to meet wide back-up time requirements, even after installation.
- Clear and user-friendly LED interface, with buzzers that immediately indicate the operating status of the UPS, even for less specialist users.

## Technical data

NETYS RT-M				
Sn [VA]	1100	1700	2200	3000
Pn [W]	800	1200	1600	2100
Input/output	1/1			
Architecture	on-line double conversion VFI with input PFC and automatic bypass			
<b>INPUT</b>				
Rated voltage	230 V			
Voltage tolerance	160÷275 V; up to 130 V @70 % load			
Rated frequency	50/60 Hz			
Frequency tolerance	± 10% (Auto-Selectable)			
Power factor / THDI	> 0.98 / < 6 %			
<b>OUTPUT</b>				
Rated voltage	230 V			
Voltage tolerance	selectable 200/208/220/240 V			
Rated frequency	50 or 60 Hz			
Frequency tolerance	± 2% (± 0.05 Hz in battery mode)			
Overload	up to 105% continuously; 125% for 3 minutes; 150% for 30 seconds			
Connections	6 x IEC 320-C13 (10 A)	6 x IEC 320-C13 (10 A) + 1 x IEC 320-C20 (16 A)		
<b>BATTERY</b>				
Back-up time <sup>(1)</sup>	8 minutes	12 minutes	8 minutes	10 minutes
Voltage	24 Vdc		48 Vdc	
Recharge time	< 6 hours to recover 90% capacity			
<b>COMMUNICATION</b>				
Interfaces	RS232 (DB9 port) MODBUS protocol, USB HID protocol			
Ethernet	WEB / SNMP (Ethernet RJ45 port) - option			
COMM slots	1 available as standard			
Dry contacts card	Option			
EPO input	RJ11 port			
Modem/ADSL surge protection	available as standard			
<b>EFFICIENCY</b>				
Online mode	up to 91%			
<b>ENVIRONMENT</b>				
Operating ambient temperature	from 0 °C up to +40 °C (from 15 °C to 25 °C for maximum battery life) Temperature class A according to DNV 2.4			
Relative humidity	0 % - 95 % without condensation			
Maximum altitude	1000 m without derating (max. 3000 m)			
Acoustic level at 1 m (ISO 3746)	< 45 dBA		< 55 dBA	
<b>UPS CABINET</b>				
Dimensions W x D x H	88.7 x 332 x 440 mm	88.7 x 430 x 440 mm	88.7 x 608 x 440 mm	
Dimensions RACK U	2U			
Weight	13 kg	21 kg	22 kg	31 kg
Degree of protection	IP20			
<b>EBM - EXTERNAL BATTERY MODULE</b>				
Dimensions W x D x H	88.7 x 332 x 440 mm	88.7 x 430 x 440 mm	88.7 x 608 x 440 mm	
Dimensions RACK U	2U			
Weight	16 kg	29 kg	43 kg	
<b>STANDARDS</b>				
Safety	IEC/EN 62040-1 (TÜV-GS certified), AS 62040.1.1, AS 62040.1.2			
EMC	IEC/EN 62040-2, DNV 2.4, AS 62040.2			
Performance	VFI-SS-111 - IEC/EN 62040-3, AS 62040.3			
Product declaration	CE, TÜV-GS, A-Tick, C-Tick, RCM (E2376), DNV type approval			

(1) @ 75 % of nominal load.

## Control panel



1. Yellow LED lit. Operation in bypass mode
2. Green LED lit. Mains healthy
3. OFF button
4. Green LED lit. Normal operation (inverter in-line)
5. ON/TEST and buzzer override button
6. LED bar. Depending on the situation, this indicates either the charge level or the capacity of the battery

## Standard electrical features

- Built-in backfeed protection.
- Protection against atmospheric phenomena (NTP) for telephone/ADSL modems.
- RJ11 connection for Emergency Power Off (EPO).
- Connection for battery extension modules.

## Electrical options

- Battery extension modules.

## Standard communication features

- LOCAL VIEW: ideal UPS monitoring and shutdown point-to-point solution for Windows®, Linux and Mac OS X® operating systems.
- HID: UPS management based on Windows® and Mac OS X® embedded service - USB interface.
- MODBUS RTU.

## Communication options

- RT-VISION: professional WEB/SNMP interface for UPS monitoring and shutdown management of several operating systems.