NETYS RT-M

Solution for marine applications
from 1100 to 3300 VA

Single-phase UPS

The solution for

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

Certifications

TYPE APPROVED PRODUCT DNV·GL MARITIME

www.tuv.com TÜV ID 1000000000 GS geprüfte Sicherheit

RoHS COMPLIANT

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 has introduced NETYS RT-M, high-performance UPS DNV GL standard certified.

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 uncluttered LCD interface, with buzzers that immediately indicate the operating status of the UPS, even for less specialist users.

socomec
Innovative Power Solutions

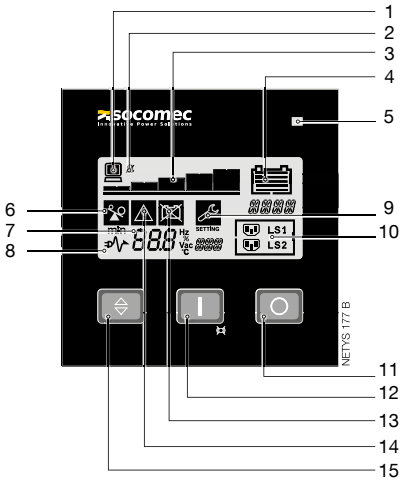
NETYS RT-M
Single-phase UPS
from 1100 to 3300 VA

Technical data

	NETYS RT-M			
Sn	1100 VA	1700 VA	2200 VA	3300 VA
Pn	900 W	1350 W	1800 W	2700 W
Architecture	on-line double conversion VFI with input PFC and automatic bypass			
INPUT				
Rated voltage	230 V (1ph)			
Voltage tolerance	175÷280 V; up to 120 V @70% load			
Rated frequency	50/60 Hz			
Frequency tolerance	± 10% (Auto-Selectable)			
Power factor / THDI	> 0.99 / < 5%			
OUTPUT				
Rated voltage	230 V (1ph)			
Voltage tolerance	selectable 200/208/220/240 V			
Rated frequency	50 or 60 Hz			
Frequency tolerance	± 2% (± 0.05 Hz in battery mode)			
Power factor	0.9 @ 1000 VA	0.9 @ 1500 VA	0.9 @ 2000 VA	0.9 @ 3000 VA
Efficiency	up to 93% online mode			
Overload capability	up to 105% continuously; 125% for 3 min; 150% for 30 s			
Connections	6 x IEC 320-C13 (10 A)	6 x IEC 320-C13 (10 A) + 1 x IEC 320-C19 (16 A)		
BATTERY				
Standard autonomy(1)	8 min	12 min	8 min	10 min
Voltage	24 VDC	48 VDC		72 VDC
Recharge time	< 6 hours to recover 90% capacity			
COMMUNICATION				
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			
ENVIRONMENT				
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 GL			
Relative humidity	5-95% non-condensing			
Maximum altitude	1000 m without derating (max. 3000 m)			
Noise level (ISO 3746)	< 45 dBA	< 50 dBA		
UPS CABINET				
Dimensions W x D x H	89 x 333 x 440 mm	89 x 430 x 440 mm		89 x 608 x 440 mm
Dimensions RACK U	2U			
Weight	13 kg	18 kg	19 kg	30 kg
Degree of protection	IP20			
EBM - EXTERNAL BATTERY MODULE				
Dimensions W x D x H	89 x 333 x 440 mm	89 x 430 x 440 mm		89 x 608 x 440 mm
Dimensions RACK U	2U			
Weight	16 kg	29 kg		43 kg
STANDARDS				
Safety	IEC/EN 62040-1, AS 62040.1.1, AS 62040.1.2			
EMC	IEC/EN 62040-2, AS 62040.2			
Performance	IEC/EN 62040-3 (efficiency tested by an external independent body)			
Maritime certification	Tested according to type approval program No. 6-800 Appendix A 822.20 SEMICONDUCTOR CONVERTERS, in addition EMC according to IEC 60945			
Product declaration	CE, RCM (E2376)			

(1) @ 75% of rated load PF 0.7.

Control panel



1. Load present
2. Buzzer off
3. Load level (5 steps)
4. Battery status
5. Load status
6. Overload
7. Input value
8. Normal mode / Battery mode (flashing)
9. Configuration
10. Programmable outlets
11. OFF button
12. ON/TEST and buzzer override button
13. Battery fault / Replace the battery
14. General alarm
15. Navigator button

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.

socomec
Innovative Power Solutions