Life Is On | **APC** ®
by Schneider Electric

Marine Smart-UPS On-line

Efficient and reliable uninterruptible power supplies
for most demanding shipboard environments.
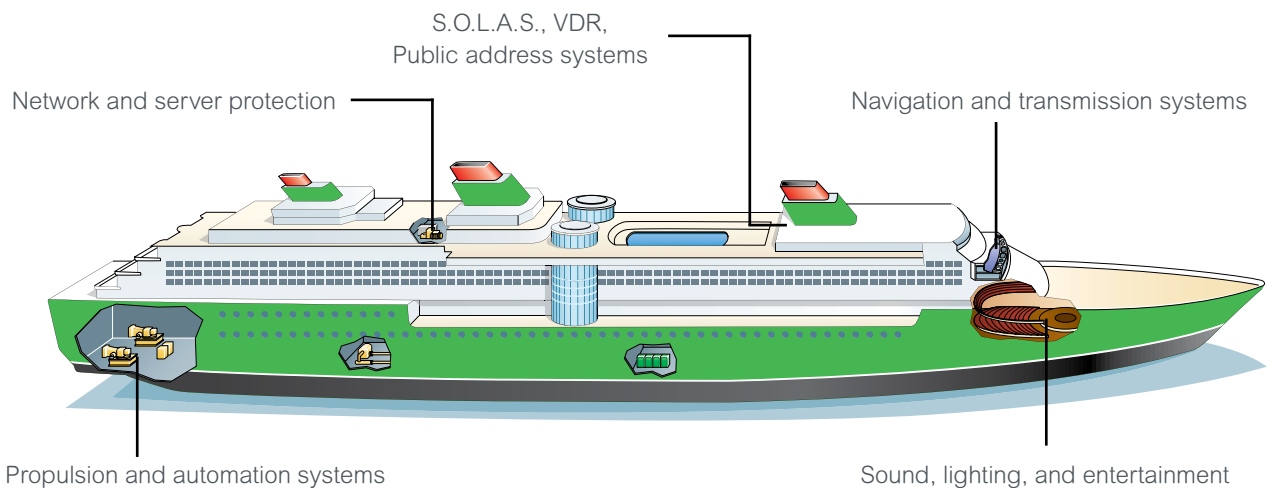
apc.com/marine

Marine Smart-UPS On-Line
5 and 6 kVA/kW 230 V

APC™ by Schneider Electric Marine Smart-UPS™ On-Line offers
high-density, double-conversion on-line power protection with scalable
runtime, ideal for providing uninterrupted power in critical marine applications.

DNV type approval
Temperature Class A
Enclosure Class A
Vibration Class A
Humidity Class A
EMC Class B

Applications: Bridge, navigation, radio communication, automation, computing, networking equipment,
S.O.L.A.S., GMDSS, ECDIS, and wherever clean, uninterrupted power is needed.

S.O.L.A.S., VDR,
Public address systems

Network and server protection

Navigation and transmission systems

Propulsion and automation systems

Sound, lighting, and entertainment

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Industry-leading power factor minimizing UPS footprint.

SRT5KRMXLIM installed in SRT10BDVK tower
installation kit with SRT6RMM filter

SRT6KRMXLIM installed in SRT10BDVK tower
installation kit with SRT6RMM filter

Standard features

Best-in-class power density
More real power in watts, 0.9 pf on 5 kVA,
Unity on 6 kVA models.

High-efficiency "Green Mode"
Achieves 98% efficiency, which saves utility
and cooling costs without compromising performance
or reliability.

**Graphical LCD display with
multicolor backlight**
Intuitive interface provides detailed and accurate
information with ability to configure locally.

Intelligent battery management
Temperature-compensated charging extends life
and advanced algorithms recommend replacement
date. The UPS can inform the user which batteries need
to be replaced and auto detect when additional battery
packs are added.

Built-in energy meter
Measures energy use and displays UPS efficiency in
various modes of operation for easy energy tracking.

Operate without battery
Ability to immediately protect equipment
when power returns.

Frequency 50 Hz< – >60 Hz conversion
Can convert 50 Hz to 60 Hz and 60 Hz to 50 Hz.

Power factor corrected input
The UPS input power factor is always 1 regardless of
the load's power factor.

Hot swappable batteries
No tools are necessary to replace the batteries on the run.

Three-year warranty on electronics
Additional year of warranty protection for electronics
provides peace of mind.

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Proven performance with the world's largest installed base of
single-phase, double-conversion products.

SRT5KRMXLIM UPS in rackmount configuration

SRT6KRMXLIM UPS in rackmount configuration

Additional features

Embedded network management card with environmental monitoring

Remote monitoring and control of the UPS and
the environment via Ethernet connection while
freeing up the SmartSlot™ so customers can add
accessories for additional communication options

Preinstalled dry contact I/O SmartSlot card AP9613

- UPS status presented via 6 fully isolated output relays,
  expandable to 8 with the optional accessory AP9810
- UPS control via 4 opto-isolated input contacts,
  expandable to 8 with an optional accessory AP9810

Emergency power off (EPO)

- Remote UPS shutoff in the event of a fire or
  other emergency. The UPS can accept normally
  open (NO) or normally closed (NC) contacts

Switched outlet group(s)

Ability to control a group of output load receptacles
independent from the main UPS. Enables:

- Rebooting hung device without cycling the entire UPS
- Sequenced turn ON/OFF
- Shedding of noncritical loads based on a variety of
  parameters (battery time, runtime remaining,
  and overload)
- Scheduled time OFF to conserve energy

Communication ports

Serial, USB, Ethernet, and SmartSlot for network
accessory cards

Communication protocols

Modbus Serial, USB power summary, HTTP, SNMP,
and Telnet

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Intuitive, easy-to-use LCD provides clear and accurate
information in multiple languages.

Backlight screens
- Amber: Indication of condition that requires attention
- Red: Indication of UPS alarm that requires immediate attention

Standard features

LCD display screen
Accurately provides real-time status updates
in your choice of basic or advanced menus

UPS status (scrolling)
- Output voltage
- Input voltage
- Output frequency
- Runtime
- Load
- Battery health

Control
- UPS and outlet group settings
- Bypass control

Configuration
- Output voltage, frequency
- Language, brightness, contrast
- Alarm volume
- IP address

Test and diagnostics
- Initiate battery and runtime calibration tests

About
- UPS serial number, battery part number
- Battery install and suggested replacement dates

Seven available languages make it easy
for a multinational crew to configure and operate
- English
- French
- Italian
- German
- Spanish
- Russian
- Portuguese

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Product accessories

Management cards
AP9620: Legacy Communication SmartSlot card

AP9622: Modbus/Jbus interface card

AP9635: UPS network management card with environmental monitoring, out-of-band access, and modbus

AP9335TH: APC temperature and humidity sensor

AP9810: APC dry contact I/O Expansion Accessory

AP9624: UPS interface expander

Battery packs
SRT192RMBPM: Extended run battery pack for 5 and 6 kVA Marine UPS

SRT002: APC Smart-UPS SRT 15 ft. extension cable for 192 VDC external battery packs 5/6 kVA UPS

Rail kits
SRTRK2: APC Smart-UPS SRT 19 in. rail kit for Smart-UPS SRT 5/6/8/10 kVA

SRTRK3: APC 2-post mounting rail kit for Smart-UPS SRT

Backplate kit
SRT001: APC Smart-UPS SRT 5 kVA output HW kit

Transformers
SURT002: APC Smart-UPS RT 5,000 VA 230 V isolation transformer

APTF10KW01: APC WW 10 kVA isolation transformer

Service bypass panels
SBP6KRMI2U: APC service bypass panel 230 V; 50 A; MBB; hardwire input; (4) IEC-320 C19 output

Replacement battery cartridge
APCRBC140

Management cards

Battery packs

Rail kits

Secure tower bolt down vibration isolation kit SRT10BDVK enables secure UPS and battery pack installation on the deck.

IP23 enclosure SRT10IP23 provides water ingress protection for UPS and battery packs

Marine filter SRT6RMM ensures conducted electromagnetic compliance per IEC60945/IACS E10/DNV-GL

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Marine Smart-UPS On-Line

Other members of the product line

DNV type approval
Temperature Class A
Enclosure Class A
Vibration Class A
Humidity Class A
EMC Class B

Marine filter
The SURT023M filter ensures conducted electromagnetic compliance per IEC60945/IACS E10/DNV-GL for 1 – 3 kVA Marine Smart-UPS On-Line

Please visit www.apc.com/marine for further product information and specifications

Marine UPS
APC Marine Smart-UPS On-Line 1 – 3 kVA
SURT1000XLIM
SURTD2200XLIM
SURTD3000XLIM

Schneider Electric global marine service

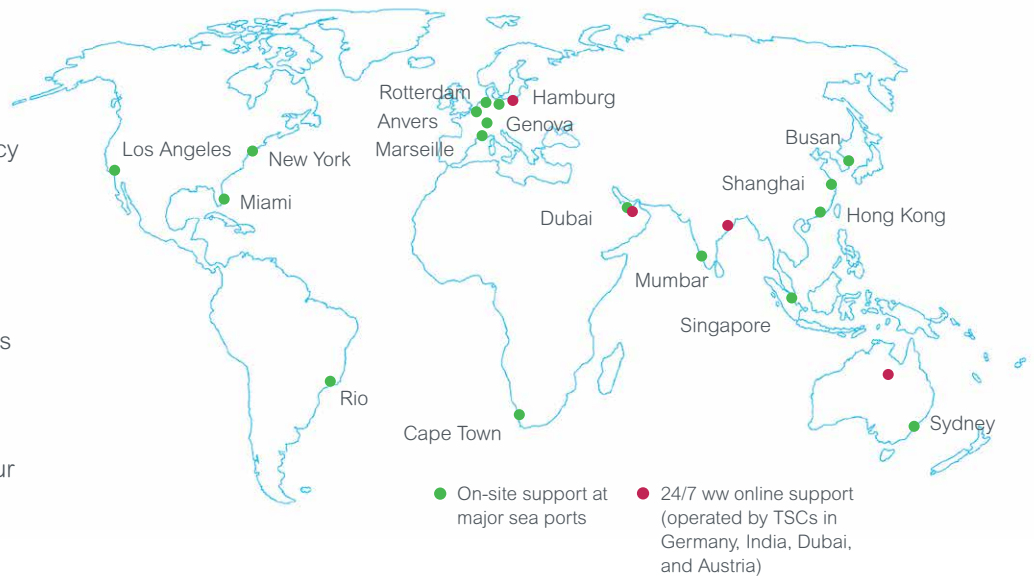**Schneider Electric global marine service support program**
- Provides 24/7 online support
- Offers to dedicated customers onboard capabilities and spares at key sea ports
- Improves fleets' operation efficiency on all shipping routes
- Reduces drastically customer's number of services providers

Operation
- Capabilities adapted to your needs
- "Online" or "on-site" support
- Extended warranty, maintenance contracts
- All necessary spare parts to fit your equipment

Retrofit
- Adaptation and upgrading solution

Rotterdam
Anvers
Marseille
Hamburg
Genova
Busan
Shanghai
Los Angeles
New York
Miami
Dubai
Hong Kong
Mumbar
Singapore
Rio
Cape Town
Sydney

- On-site support at major sea ports
- 24/7 ww online support (operated by TSCs in Germany, India, Dubai, and Austria)

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Marine Smart-UPS On-Line 5 and 6 kVA/kW 230 V

Technical specifications

Product feature/product sku#	SRT5KRMXLIM	SRT6KRMXLIM
General		
Input: Output phase configuration	1:1	
Input power feed	Single	
Power rating; derate 1.67%/°C above 40 °C	5 kVA/4.5 kW	6 kVA/6 kW
Power factor: Input/output	1.0/0.9	1.0/1.0
Efficiency: Online/green mode	94%/98%	
Output characteristics		
Nominal output voltage	230 V (220, 240 V user selectable)	
Output frequency	Factory default: 50/60 Hz ± 3 Hz (auto sense); 50 or 60 Hz ± 0.1 Hz user selectable	
Generator compatibility	Fast sync slew rate for generator synchronization	
Overload capability (% and duration)	Up to 105%: no limit; 125%: 1 min; 150% 30 sec; >175%, short circuit 500 msec	
Output connection	(6) IEC 320 C13, (4) IEC 320 C19, Hardwire (requires an optional SRT001 for SRT5KRMXLIM)	
Switched outlet groups	2	3
Input characteristics		
Input voltage nominal	220, 230, 240 V	
Input voltage range at full/half load, 40 °C	160 – 275 V/100 – 275 V	
Input voltage range at full/half load, 55 °C	180 – 275 V/112 – 275 V	
Input frequency range	40 – 70 Hz	
Input connection	Hardwire (1Ph+N+G); (2Ph+G)	
Battery		
Battery type	Maintenance-free, sealed, valve-regulated lead acid with suspended electrolyte, leak proof	
Charging time (reach 90% after full discharge)	< 1.5 hours (internal batteries only)	
Extended runtime	Yes, up to 10 external battery packs with full feature support	
Hot swappable batteries	Yes	
Communication section and user interface		
Communication ports	RJ-45 Serial (also simple signaling, remote on/off), USB, RJ-45 Ethernet, RJ45 temperature/humidity probe	
Dry contact relay outputs	6 fully isolated output relays (expandable to 8 by optional accessory SKU# AP9810)	
Dry contact relay inputs	4 opto-isolated inputs (expandable by 4 additional (non opto-isolated) with an optional SKU# AP9810)	
EPO NO/NC	Yes, screw terminals; NC or NO	
Cold start/EPO reset	Yes (Use on/off switch on display)	
Firmware upgradable	Yes — via FW upgrade wizard or NMC	
Physical section		
Rack height	3 U	4 U
Tower, (w x h x d), mm	130 x 432 x 719	174 x 432 x 719
Weight net, kg	55	60
Regulatory compliance		
Regulatory compliance	DNV-GL 2.4, IEC60945, IACS E10, IEC 62040-1, IEC 62040-2, IEC 62040-3 (VFI-SS-111), IEC 62040-4, IEC62430, VDE, EAC, CE, RCM, KCC	
Runtime, min., at half/full load		
UPS internal batteries only	12/4	9/3
1 battery pack	46/21	36/16
2 battery packs	83/38	65/29
3 battery packs	121/56	96/44
4 battery packs	160/75	127/57

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