

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

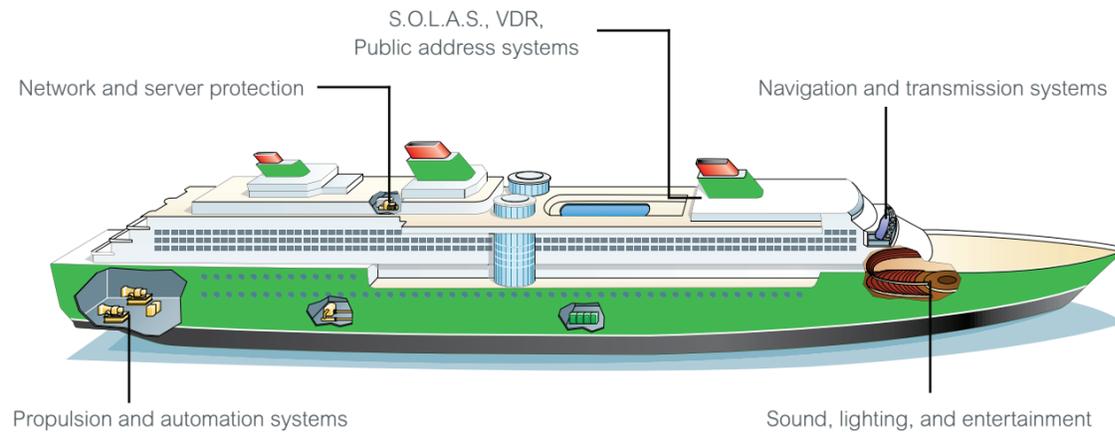
Marine Smart-UPS On-Line 5 and 6 kVA/kW 230 V

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.



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

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

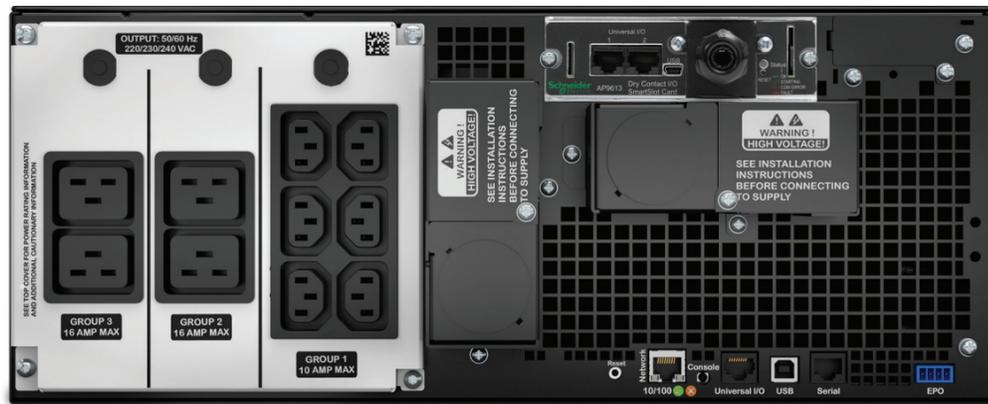
- Best-in-class power density**
More real power in watts, 0.9 pf on 5 kVA, Unity on 6 kVA models.
- High-efficiency "Green Mode"**
Achieves 98% efficiency, which saves utility and cooling costs without compromising performance or reliability.
- Graphical LCD display with multicolor backlight**
Intuitive 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.

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

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

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

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

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

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

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



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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