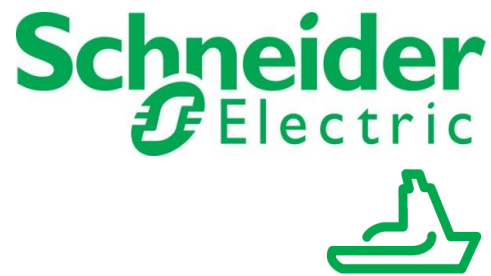


# UPS for Marine Applications



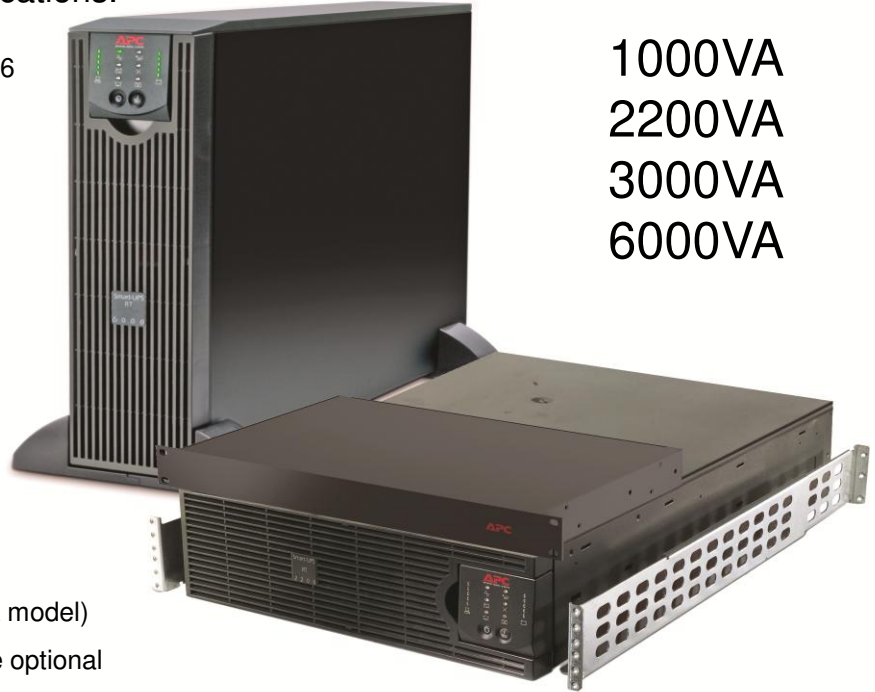
**APC** Marine Smart-UPS Online UPS offers high density, double-conversion on-line power protection with scalable runtime, ideal for providing uninterrupted power in critical marine applications.



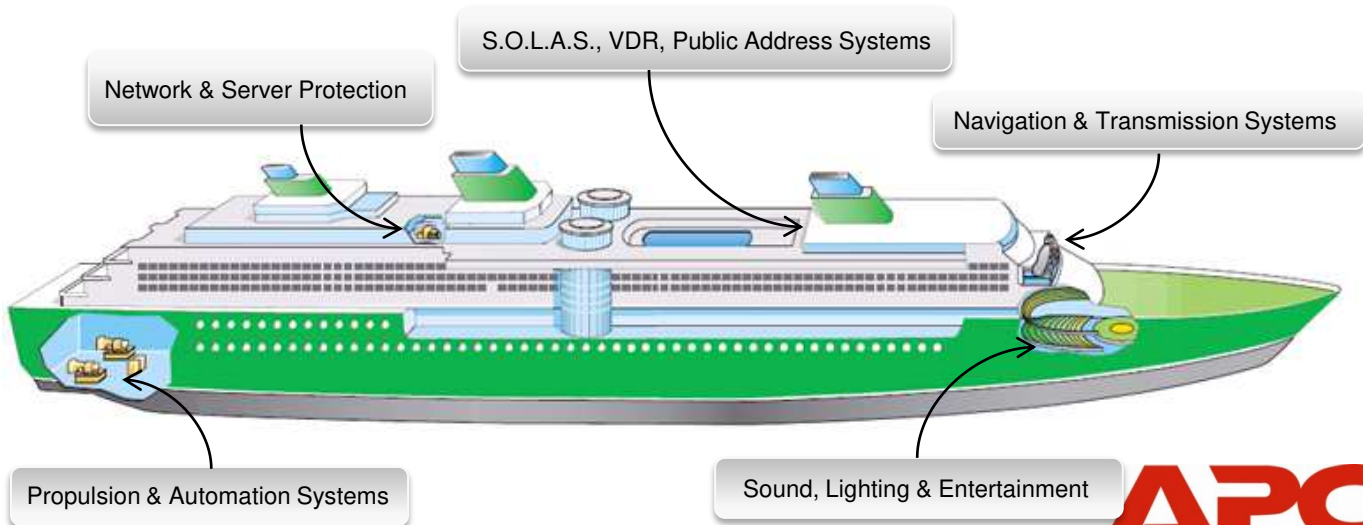
**DNV Type Approval**  
Certificate No E-11186  
Temperature Class A  
Enclosure Class A  
Vibration Class A  
Humidity Class A  
EMC Class B

1000VA  
2200VA  
3000VA  
6000VA

- >Cold Start
- >Robust mechanical design
- >Worldwide service network
- >Relay I/O interface available
- >Power factor corrected input
- >Unlimited external battery packs
- >Operating temperature up to 55°C
- >Manual bypass switch (except 1kVA model)
- >SNMP and Ethernet connectivity are optional
- >Frequency Conversion Function 50Hz↔60Hz
- >Hot-swappable, front-accessible, user replaceable batteries



**Applications:** Bridge, Navigation, Radiocommunication, Automation, Computing, Networking equipment, SOLAS, GMDSS, and wherever clean uninterrupted power is needed.



## UPS for Marine Applications



DNV Type Approved



**SURT1000XLIM with filter SURT023M\***



**SURT6000XLIM with filter SURT024M\***

|                                            |                                                                                    |                                  |                |                   |
|--------------------------------------------|------------------------------------------------------------------------------------|----------------------------------|----------------|-------------------|
| Technical Specification                    | SURT1000XLIM                                                                       | SURTD2200XLIM                    | SURTD3000XLIM  | SURT6000XLIM      |
| OPERATION                                  |                                                                                    |                                  |                |                   |
| Power Capacity                             | 1000VA (700W)                                                                      | 2200VA (1540W)                   | 3000VA (2100W) | 6000VA (4200W)    |
| Input Voltage (default 230V)               | 208, 220, 230, 240V                                                                |                                  |                |                   |
| Input Voltage Range (Full Load, t = 40°C ) | 160V to 280V                                                                       |                                  |                |                   |
| Input Voltage Range (Half Load, t = 40°C)  | 100V to 280V                                                                       |                                  |                |                   |
| Input Voltage Range (Full Load, t= 55°C)   | 180V to 280V                                                                       |                                  |                |                   |
| Input Voltage Range (Half Load, t= 55°C)   | 112.5V to 280V                                                                     |                                  |                |                   |
| Input Frequency Range                      | 45Hz – 65Hz                                                                        |                                  |                |                   |
| Input Connection                           | IEC 320 C14                                                                        | IEC 320 C20                      | IEC 320 C20    | Hardwire (H, N,G) |
| Output Voltage (default 230V)              | 208, 220, 230, 240V                                                                |                                  |                |                   |
| Output Voltage Regulation                  | +/-1%                                                                              |                                  |                |                   |
| Output Frequency                           | Default: 50/60+/-3Hz autotracking, or fixed 50Hz or 60Hz +/- 0.1Hz                 |                                  |                |                   |
| Efficiency                                 | 88%                                                                                | 90%                              | 91%            | 92%               |
| Output Connections                         | (6) IEC 320 C13                                                                    | (8) IEC 320 C13, (2) IEC 320 C19 |                |                   |
| BATTERIES & RUNTIME                        |                                                                                    |                                  |                |                   |
| Runtime at Full Load                       | 7 min                                                                              | 21 min                           | 14 min         | 5 min             |
| Runtime with (1) External Battery Pack     | 47 min                                                                             | 80 min                           | 57 min         | 21 min            |
| Runtime with (2) External Battery Pack     | 87 min                                                                             | 144 min                          | 103 min        | 40 min            |
| External Battery Pack Part Number          | SURT48RMXLBP                                                                       | SURT192RMXLBP                    |                |                   |
| Maximum Number of Battery Packs            | unlimited                                                                          |                                  |                |                   |
| CONNECTIVITY                               |                                                                                    |                                  |                |                   |
| Emergency Power Off                        | NO                                                                                 | YES                              |                |                   |
| Manual bypass switch                       | NO                                                                                 | YES                              |                |                   |
| Relay I/O                                  | Serial port signaling and optional Relay I/O Card AP9613                           |                                  |                |                   |
| Communication Port                         | DB9 Serial                                                                         | RJ-50 Serial                     | RJ-50 Serial   | DB9 Serial        |
| Networking (SNMP, Ethernet, etc.)          | Optional Network Management Card AP9630 or AP9631 (AP9631 also provides Relay I/O) |                                  |                |                   |
| PHYSICAL                                   |                                                                                    |                                  |                |                   |
| Rack Height                                | 2U                                                                                 | 3U                               |                |                   |
| Dimensions (mm) H x W x D                  | 432 x 85 x 483                                                                     | 432 x 130 x 660                  |                |                   |
| Weight (Kg)                                | 23                                                                                 | 54.5                             |                |                   |
|                                            |                                                                                    |                                  |                |                   |
| Marine Filter * Part Number                | SURT023M                                                                           |                                  |                | SURT024M          |

\* Marine Filter Required for DNV Compliance in applications that require DNV EMC Class B (e.g. the bridge)