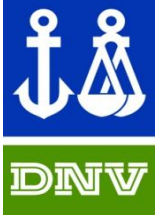




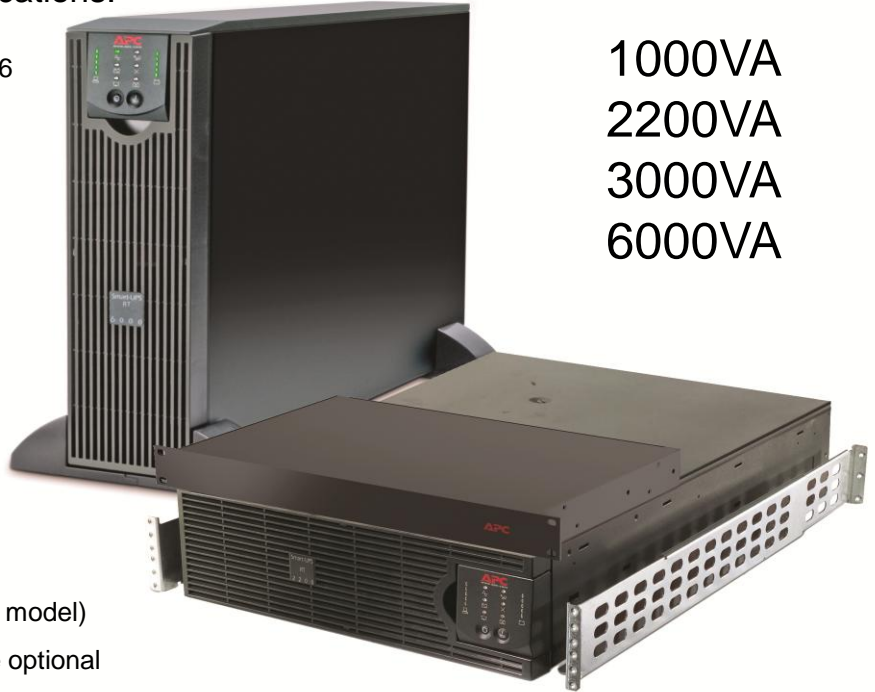
## UPS for Marine Applications

**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.



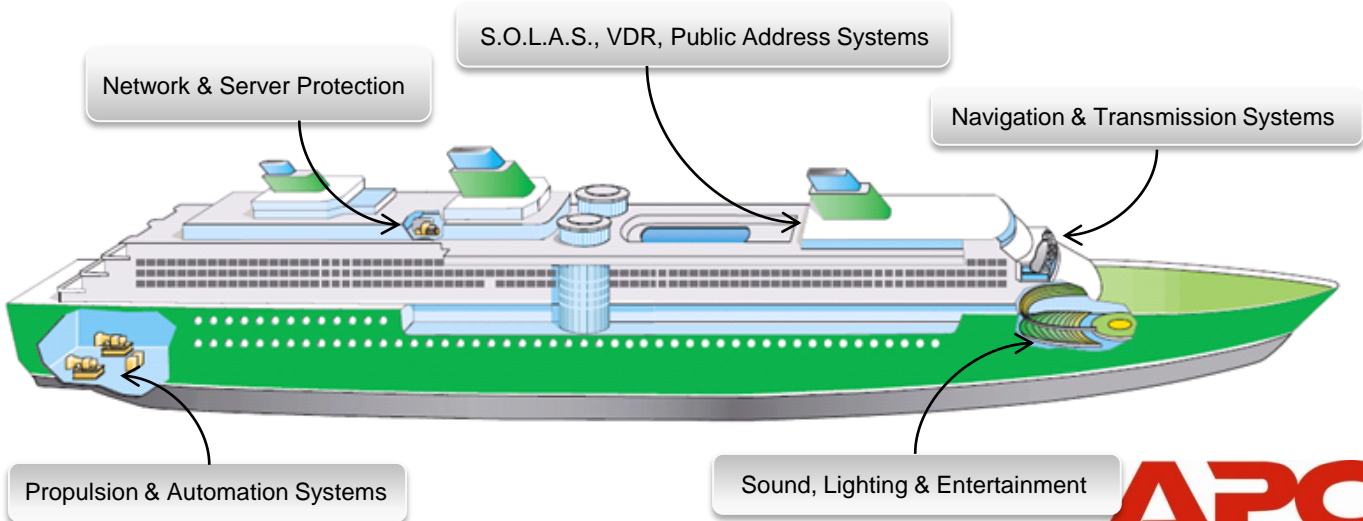
**DNV Type Approval**  
 Certificate No E-11186  
 Temperature Class A  
 Enclosure Class A  
 Vibration Class A  
 Humidity Class A  
 EMC Class B

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      |
|---|--|----------------------------------|----------------|-------------------|
| <b>OPERATION</b>                          |  |                                  |                |                   |
| 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 |                |                   |
| <b>BATTERIES &amp; RUNTIME</b>            |  |                                  |                |                   |
| 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         | SURT48RMLBP  | SURT192RMLBP                     |                |                   |
| Maximum Number of Battery Packs           | unlimited  |                                  |                |                   |
| <b>CONNECTIVITY</b>                       |  |                                  |                |                   |
| 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) |                                  |                |                   |
| <b>PHYSICAL</b>                           |  |                                  |                |                   |
| 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)