



NOVA Project Office
BASIS of ESTIMATE FORM (BoE)

Document Number: 2090

Date of Estimate:
May 28, 2007

Prepared by:
Andrew Norman

UID Number: **WBS Section: 2.7.4.1.1.9**

Task Name:
 DCS far site 10kVA UPS for power protection of DCS Cluster

Cost Type:	Costing Method:	_ Prior purchase or experience	_X_ Catalog Price
	___ Engineering Estimate	Source:	Source:connect-tek.com
<input checked="" type="checkbox"/> M&S ___ Labor	___ Vendor Quote (attached)	___ Other- Description: _____	

Attach Relevant Documents (including but not limited to):
 RFP, Responses to RFP, Technical Evaluation of RFP, Vendor Quotes, Technical Specifications, drawing numbers

Task Duration: (calendar weeks, 85% achievable): **see table below**

Task M&S Cost (FY07\$): 6,893 See cost table below Task M&S Contingency (%): 25% See cost table below	Task Labor (resource type & work hours or % for duration of task, 85% efficiency assumed): See cost table below Task Labor Contingency (%): See cost table below
--	---

Details of Estimate:

10kVA uninterruptable power supply for powering the DCS computing cluster and act as a line conditioner.

Estimate is based off of the APC unit using 208V supply.

See attached vendor information



Legendary Reliability™

United States [[Change](#)] [Order Status](#) [View Cart](#)[Home](#) [Products](#) [Support](#) [Services](#) [Selectors](#) [How to Buy](#) [Learning](#)

My Shopping Cart

*Your Cart currently displays APC estimated retail price for the items it contains.

[Continue Shopping](#)

Qty.	Model #	Description	Estimated Unit Price*	Estimated Item Total*	Delete
<input type="text" value="1"/>	SURT10000RMXLT	APC Smart-UPS RT 10,000VA RM 208V	\$5,850.00	\$5,850.00	

View these options for the SURT10000RMXLT

[Services \(13\)](#)[Accessories \(52\)](#)

Enter Coupon Code

Note: APC reserves the right to discontinue any promotion at any time without notice. Promotional items are subject to availability.

Cart Total (Without TAX/VAT): \$5,850.00

Submit Feedback

Send [Feedback](#) to inform us of errors or send suggestions on how to improve your online shopping experience.

[Copyright](#) © American Power Conversion Corp., all rights reserved
[About APC](#) [Investors](#) [Job Seekers](#) [Press](#) [Feedback](#) [Contact](#) [Privacy Policy](#) [RSS](#)



Legendary Reliability™

United States [[Change](#)]

 Search

[Order Status](#)[View Cart](#)

[Home](#)[Products](#)[Support](#)[Services](#)[Selectors](#)[How to Buy](#)[Learning](#)

Smart-UPS RT

APC Smart-UPS RT 10,000VA RM 208V



APC Smart-UPS RT, 8000 Watts / 10 kVA, Input 208V / Output 208V, Interface Port DB-9 RS-232, RJ-45 10/100 Base-T, Smart-Slot, Extended runtime model, Rack Height 6 U



Includes: CD with software, Rack Mounting support rails, Smart UPS signalling RS-232 cable, User Manual, Web/SNMP Management Card

[+ More Images](#)

Standard Lead Time: Usually in Stock

[Runtime Chart](#)

- [Technical Specifications](#)
- [Product Overview](#)
- [Documentation](#)
- [Software & Firmware](#)
- [Options](#)
- [Included Components](#)
- [Compare Models](#)

Output

Output Power Capacity

8000 Watts / 10 kVA

Max Configurable Power

8000 Watts / 10 kVA

Nominal Output Voltage

SURT10000RMXLT

Estimated Resale Price * : **\$5,850.00**

(4 Retailers)

[Add to Cart](#)

[Add Options](#)

[Email Technical](#)

[Specifications](#)

[Printer Friendly](#)

208V

Output Voltage Note

Configurable for 208 or 240 nominal output voltage

Efficiency at Full Load

92.00%

Output Voltage Distortion

Less than 3%

Output Frequency (sync to mains)

50/60 Hz +/- 3 Hz user adjustable +/- 0.1

Crest Factor

3 : 1

Waveform Type

Sine wave

Output Connections

(1) Hard Wire 3-wire (2PH + G)

(2) NEMA L6-20R

(2) NEMA L6-30R



Input

Bypass

Internal Bypass (Automatic and Manual)

Nominal Input Voltage

208V

Input Frequency

50/60 Hz +/- 5 Hz (auto sensing)

Input Connections

Hard Wire 3-wire (2PH + G)

Input voltage range for main operations

160 - 280V

Other Input Voltages

240

Batteries & Runtime

Battery Type

Maintenance-free sealed Lead-Acid battery with suspended electrolyte : leakproof

Included Battery Modules

4

Typical recharge time

2.20 hour(s)

Replacement battery cartridge

[RBC44](#)

RBC™ Quantity

2

Typical Backup Time

at Half Load

13.2 minutes (4000 Watts)

Typical Backup Time
at Full Load
4.0 minutes (8000 Watts)

Runtime Chart

[Smart-UPS RT](#)

Extended Run Options

[APC Smart-UPS RT 10,000VA RM 208V](#)

Communications & Management

Interface Port(s)

DB-9 RS-232,RJ-45 10/100 Base-T,Smart-Slot

Pre-Installed SmartSlot™ Cards

[AP9619](#)

Control panel

LED status display with load and battery bar-graphs and On Line : On Battery : Replace Battery : Overload and Bypass Indicators

Audible Alarm

Alarm when on battery : distinctive low battery alarm : overload continuous tone alarm

Emergency Power Off (EPO)

Yes

Surge Protection and Filtering

Filtering

Full time multi-pole noise filtering : 0.3% IEEE surge let-through : zero clamping response time : meets UL 1449

Physical

Maximum Height

10.35 inches (263 mm)

Maximum Width

17.00 inches (432 mm)

Maximum depth

26.12 inches (663 mm)

Rack Height

6U

Net Weight

244.00 lbs. (110.91 kg)

Shipping Weight

284.00 lbs. (129.09 kg)

Shipping Height

21.75 inches (552 mm)

Shipping Width

23.50 inches (597 mm)

Shipping Depth

39.00 inches (991 mm)

Color

Black

Units per Pallet

1.00

Environmental

Operating Environment

32 - 104 °F (0 - 40 °C)

Operating Relative Humidity

0 - 95%

Operating Elevation

0-10000 feet (0-3000 meters)

Storage Temperature

5 - 113 °F (-15 - 45 °C)

Storage Relative Humidity

0 - 95%

Storage Elevation

0-50000 feet (0-15000 meters)

Audible noise at 1 meter from surface of unit

55 dBA

Online Thermal Dissipation

2216.00 BTU/hr

Conformance

Regulatory Approvals

CSA,FCC Part 15 Class A,UL 1778

Standard Warranty

2 years repair or replace

*Estimated Resale Price - Without Tax/VAT

**The time to recharge to 90% of full battery capacity following a discharge to shutdown using a load rated for 1/2 the full load rating of the UPS.

[Copyright](#) © American Power Conversion Corp., all rights reserved

[About APC](#)[Investors](#)[Job Seekers](#)[Press](#)[Feedback](#)[Contact](#)[Privacy Policy](#) [RSS](#)



APC Smart-UPS RT 10,000VA RM 208V
Part Number: SURT10000RMXLT



Output

Output Power Capacity

8000 Watts / 10 kVA

Max Configurable Power

8000 Watts / 10 kVA

Nominal Output Voltage

208V

Output Voltage Note

Configurable for 208 or 240 nominal output voltage

Efficiency at Full Load

92.00%

Output Voltage Distortion

Less than 3%

Output Frequency (sync to
mains)

50/60 Hz +/- 3 Hz user adjustable +/- 0.1

Crest Factor

3 : 1

Waveform Type

Sine wave

Output Connections

(1) Hard Wire 3-wire (2PH + G)

(2) NEMA L6-20R



(2) NEMA L6-30R



Input

Bypass

Internal Bypass (Automatic and Manual)

Nominal Input Voltage

208V

Input Frequency

50/60 Hz +/- 5 Hz (auto sensing)

Input Connections

Hard Wire 3-wire (2PH + G)

Input voltage range for main operations

160 - 280V

Other Input Voltages

240

Batteries & Runtime

Battery Type

Maintenance-free sealed Lead-Acid battery with suspended electrolyte : leakproof

Included Battery Modules

4

Typical recharge time

2.20 hour(s)

Replacement battery

cartridge

[RBC44](#)

RBC™ Quantity

2

Typical Backup Time
at Half Load

13.2 minutes (4000 Watts)

Typical Backup Time
at Full Load

4.0 minutes (8000 Watts)

Runtime Chart

[Smart-UPS RT](#)

Extended Run Options

[APC Smart-UPS RT 10,000VA RM 208V](#)

Communications & Management

Interface Port(s)

DB-9 RS-232,RJ-45 10/100 Base-T,Smart-Slot

Pre-Installed SmartSlot™
Cards

[AP9619](#)

Control panel

LED status display with load and battery bar-graphs and On Line
: On Battery : Replace Battery : Overload and Bypass Indicators

Audible Alarm

Alarm when on battery : distinctive low battery alarm : overload
continuous tone alarm

Emergency Power Off
(EPO)

Yes

Surge Protection and Filtering

Filtering

Full time multi-pole noise filtering : 0.3% IEEE surge let-through :
zero clamping response time : meets UL 1449

Physical

Maximum Height

10.35 inches (263 mm)

Maximum Width

17.00 inches (432 mm)

Maximum depth

26.12 inches (663 mm)

Rack Height

6U

Net Weight

244.00 lbs. (110.91 kg)

Shipping Weight

284.00 lbs. (129.09 kg)

Shipping Height

21.75 inches (552 mm)

Shipping Width

23.50 inches (597 mm)

Shipping Depth

39.00 inches (991 mm)

Color

Black

Units per Pallet

1.00

Environmental

Operating Environment

32 - 104 °F (0 - 40 °C)

Operating Relative Humidity

0 - 95%

Operating Elevation

0-10000 feet (0-3000 meters)

Storage Temperature

5 - 113 °F (-15 - 45 °C)

Storage Relative Humidity

0 - 95%

Storage Elevation

0-50000 feet (0-15000 meters)

from surface of unit

55 dBA

Online Thermal Dissipation

2216.00 BTU/hr

Conformance

Regulatory Approvals

CSA,FCC Part 15 Class A,UL 1778

Standard Warranty

2 years repair or replace

All rights reserved. All APC trademarks are property of American Power Conversion. Other trademarks are property of their respective owners. Specifications are subject to change without notice.