

Dell Smart-UPS 1500 – 3000 VA

120 V

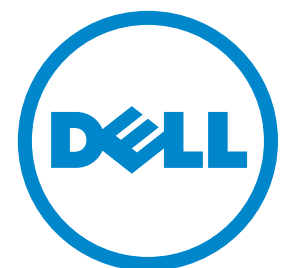
Advanced line interactive power protection
for servers and network equipment



Reliable. Intelligent. Efficient. Manageable.

Engineered by APC™ by Schneider Electric™, the Dell Smart-UPS™ is the most popular UPS in the world for servers, storage, and networks. Trusted to protect critical data and equipment from power problems, Smart-UPS units supply clean and reliable network-grade power, and have extremely high efficiency at low, medium, and high load levels — making them ideal for today's multi-core or virtualized servers that have varying load consumption. Available in both tower and rack-mount form factors, there is a model for every application and budget.

Intelligent and efficient network power protection, Smart-UPS is the ideal choice for servers, point-of-sale, routers, switches, hubs, and other network devices.



Dell Smart-UPS Tower and Rack-mount 1500 – 3000 VA

Application-optimized standard models, ideal for servers, storage, point-of-sale, and other network devices



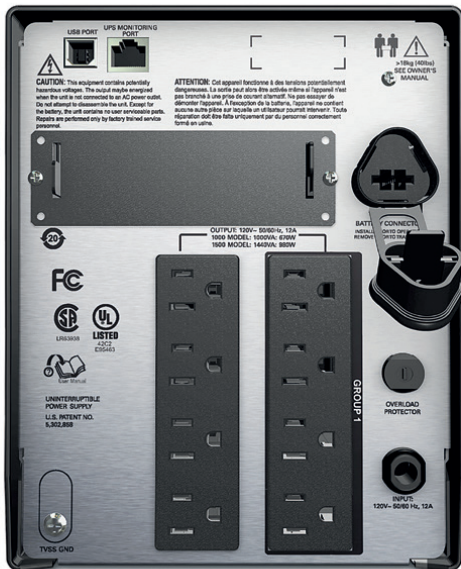
[DLT1500]



[DLT1500RM2U]



[DLT1500RM2U]



[DLT1500]

Standard Features

High-efficiency Green Mode:

Optimum efficiency which saves utility and cooling costs

Emergency Power Off (EPO):

Provides for remote UPS shut-off in the event of a fire or other emergency (2,200 VA and above)

Alphanumeric LCD Display:

Intuitive interface providing detailed and accurate information with ability to configure locally

Battery Disconnect:

Convenient way to disconnect battery for transport

Network-grade Power:

Provides most stable power conditions by filtering noise, automatic voltage regulation (AVR), and surge protection

Communication Ports:

Serial, USB, and SmartSlot™ for accessory cards

Advanced Battery Management:

Temperature-compensated charging extending life, and advanced algorithms recommend replacement date

Dell Smart-UPS Display

Intuitive, easy-to-use LCD interface

Standard Features

LCD Display Screen

Clear, consistent, and detailed information in your choice of basic or advanced menus

Power Status:

- Operating mode and efficiency
- Load VA/Watts/Amps
- Input/Output voltage and frequency
- Battery capacity and runtime
- Energy meter and more

Control:

UPS and outlet group settings

Configuration:

- Language
- Power quality settings
- Alarm, delay, and threshold settings

Test and Diagnostics:

Initiate battery and runtime calibration tests

Logs:

See explanation of last 10 transfers and faults

About:

UPS replacement battery part numbers, serial numbers, battery install, and suggested replacement dates

Quick Status Indicators

Online, on battery, fault, and replace battery LEDs for quick status identification

Escape:

Exits to the previous menu or screen

Return:

Used to enter or confirm settings

Navigation Arrows:

Allow for quick adjustment of settings



Product Services and Accessories

Dell Smart-UPS warranty and support is provided by APC by Schneider Electric. In addition, APC offers a wide variety of accessories for Dell Smart-UPS, including the items listed below:

Management Cards

AP9630: UPS Network Management Card

AP9631: UPS Network Management Card with Environmental Monitoring

AP9620: Legacy Communications SmartSlot Card

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

Additional Accessories

AP9625: APC Smart-UPS Two-post Rail Kit

Service Bypass Panels

SBP1500RM: APC Service Bypass PDU,

120 V; 15 AMP w/ (8) NEMA® 5-15R

SBP3000RM: APC Service Bypass PDU,

120 V; 30 AMP w/ (4) NEMA 5-20R and

(1) L5-30R

SBP3000: APC Service Bypass Panel,

100 – 240 V; 30 A; BBM; Hardwire

Input/Output

SBP3000RMHW: APC Service Bypass Panel,

100 – 240 V; 30 A; BBM; Hardwire Input/Output



AP9635



SBP3000RM



Dell Smart-UPS Models

UPS Model	DLT1500	DLT2200	DLT1500RM2U	DLT3000RM2U
Output				
Power capacity	1000 W/1440 VA	1920 W/2200 VA	1000 W/1440 VA	2700 W/3000 VA
Nominal output voltage	120 V			
Output frequency	57 – 63 Hz			
Waveform type	Sine wave			
Output Connections	(8) 5-15R	(8) 5-15R, (2) 5-20R	(6) 5-15R, (2) 5-20R	
Input				
Nominal input voltage	120 V			
Input voltage range for main operations (Max adjustable range)	82 – 144 V (75 – 154 V)			
Input frequency	50/60 Hz +/- 3 Hz (auto sensing)			
Input connection	5-15P, 6-ft. cord	5-20P, 6-ft. cord	5-15P, 8-ft. cord	L5-30P, 8-ft. cord
Batteries and runtime				
Battery type	Maintenance-free sealed lead-acid battery with suspended electrolyte; leak proof			
Replacement battery	RBC7	RBC55	APCRBC133	RBC43
Runtime estimates (h:mm)				
200 W	1:24	2:17	:27	1:26
500 W	:23	:51	:12	:38
700 W	:12	:34	:07	:26
1,000 W	:07	:21	:04	:17
1,400 W		:13		:11
1,600 W		:10		:09
Full load	:07	:07	:04	:03
Communication and management				
Interface ports	Serial (RJ45), USB, and SmartSlot			
Control panel and audible alarms	Alpha-numeric LCD display with LED status indicators; alarm on battery, distinctive low battery alarm and configurable delays			
Emergency power off (EPO)	Optional	Yes	Optional	Yes
Surge protection and filtering				
Surge energy rating	480 J		459 J	480 J
Filtering meets	Full-time multi-pole noise filtering: 0.3% IEEE surge let-through, zero clamping response time, meets UL® 1449			
Physical				
Maximum height	8.5", 216 mm, 21.6 cm	17", 432 mm, 43.2 cm	3.5", 89 mm, 8.9 cm	3.5", 89 mm, 8.9 cm
Maximum width	6.7", 171 mm, 17.1 cm	7.7", 195.6 mm, 19.6 cm	17", 432 mm, 43.2 cm	17", 432 mm, 43.2 cm
Maximum depth	17.3", 44 mm, 439.4 cm	21.5", 546 mm, 54.6 cm	18", 457 mm, 45.7 cm	26", 660 mm, 66 cm
Net weight	53 lbs, 24.4 kg	112 lbs, 50.80 kg	63 lbs, 28.6 kg	96 lbs, 43.5 kg
Conformance				
Regulatory	UL 1778, CSA®, Energy Star, FCC Part 15 Class A			
Warranty	3 years: UPS and battery			

Dell Smart-UPS On-Line 120/208 V

Industry-leading power factor single-phase, double-conversion, online UPS with advanced management features.



A versatile UPS developed for unstable power conditions worldwide.

The Dell Smart-UPS™ On-Line UPS, Engineered by APC™ by Schneider Electric™ provides high-density, double-conversion online power protection for servers, voice/data networks, medical labs, and light industrial applications. The Dell Smart-UPS On-Line is capable of supporting loads from 3 kVA to 8 kVA in a rack/tower convertible chassis.

The 8 kVA model features unity output power factor enabling it to support power-hungry blade servers or heavily loaded equipment racks. When business-critical systems require runtime in hours, not minutes, Dell Smart-UPS On-Line can be configured with multiple battery packs to meet aggressive runtime demands.

The included PowerChute™ Network Shutdown management software provides unattended graceful shutdown of network operating systems. The 5kVA and 8kVA models include an integrated network management card for remote management. The network management card is optional for the 3kVA model. The entire Dell Smart-UPS On-Line family provides value to customers with demanding power conditions, including a very wide input voltage window, extremely tight output voltage regulation, frequency regulation, internal bypass, and input power factor correction.

Life Is On 

APC[™]
by Schneider Electric



Dell Smart-UPS On-Line

Industry-leading power factor maximizing UPS density.

Rackmount and Tower DLRT 3 kVA - 8 kVA



[DLRT5KRMXLT shown]

Features

Best-in-class power density

More real power in watts, 0.90 pf on 3 kVA, 0.85 pf on 5 kVA, 1.0 pf on 8 kVA.

High-efficiency “green mode”

Achieves up to 98% efficiency, which saves utility and cooling costs without compromising performance or reliability. Energy STAR Compliant.

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.

Rack/tower convertible

Dell Smart-UPS On-Line UPS and battery packs ship with both rackmount hardware and tower installation feet enabling flexibility for user application. (The 8 kVA model does not need feet for tower installation.)

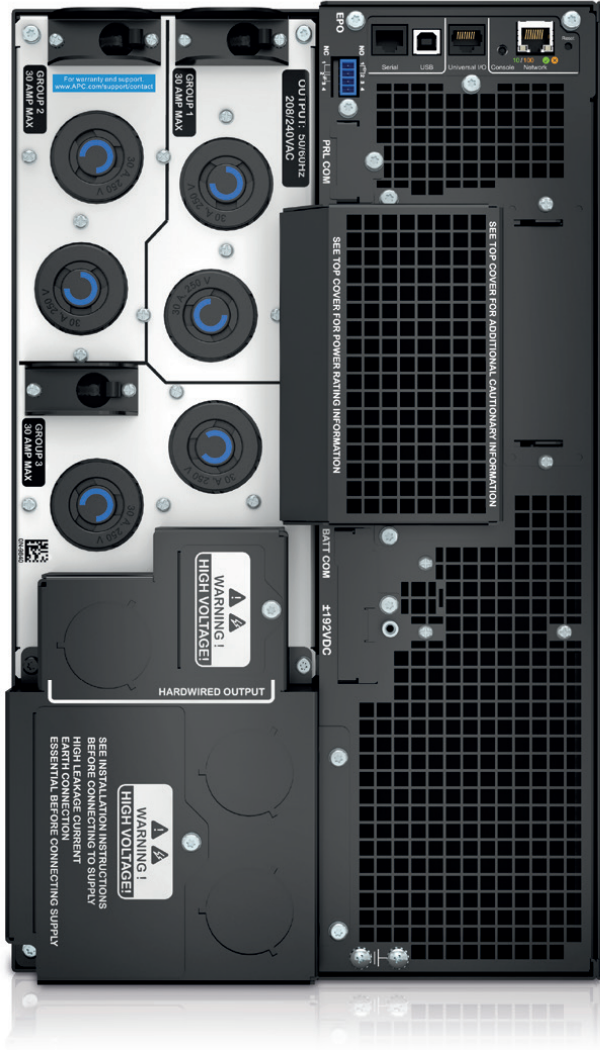
Three-year warranty

Additional year of warranty provides peace of mind.

Dell Smart-UPS On-Line

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

Rackmount/tower convertible DLRT 3 kVA - 8 kVA



[DLRT8KRMXLT shown]

Additional features

Embedded network management card with environmental monitoring (standard on 5kVA and 8kVA models, optional on the 3kVA model).

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.

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 non-critical loads based on a variety of parameters (battery time, runtime remaining, and overload).
- Scheduled time off to conserve energy.

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.

Communication ports

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

Communication protocols

Modbus Serial, USB PowerSummary, HTTP, SNMP, and Telnet.

Dell Smart-UPS On-Line Display

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

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.



Backlight screens:

Amber: Indication of condition that requires attention.

Red: Indication of UPS alarm that requires immediate attention.



Product accessories

Management cards

AP9630: UPS Network Management Card with PowerChute Network Shutdown

AP9631: UPS Network Management Card with PowerChute Network Shutdown & Environmental Monitoring

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

AP9810: APC Dry Contact I/O Accessory

AP9624: UPS Interface Expander

AP9613: Dry contact I/O SmartSlot Card

Battery packs

DLRT96RMBP: Dell Smart-UPS SRT 96 V, 3 kVA tower/rackmount battery pack

SRT010: Dell Smart-UPS SRT 15 ft. extension cable for 96 VDC external battery packs 3 kVA UPS

DLRT192RMBP: Dell Smart-UPS SRT 192 V 5 kVA RM/Tower Convertible Battery Pack

SRT002: APC Smart-UPS SRT 15 ft. Extension Cable for 192 VDC External Battery Packs 5 kVA UPS

DLRT192RMBP2: Dell Smart-UPS SRT 192 V 8 kVA RM/Tower Convertible Battery Pack

SRT003: APC Smart-UPS SRT 15 ft. Extension Cable for 192 VDC External Battery Packs 8 kVA UPS

Rail kits

SRTRK4: APC Smart-UPS 19 in. rail kit for Dell Smart-UPS DLRT3000RMXLA

SRTRK2: APC Smart-UPS SRT 19 in. Rail Kit for Dell Smart-UPS DLRT5KRMXLT and DLRT8KRMXLT

SRTRK3: APC Smart-UPS DLRT 2 Post Mounting Rail Kit for Dell Smart-UPS DLRT5KRMXLT and DLRT8KRMXLT

Backplate kit

SRT012: Input/Output hardwire kit for Dell Smart-UPS DLRT3000RMXLA

SRT001: Output HW kit for Dell Smart-UPS DLRT5KRMXLT

SRT004: Dell Smart-UPS DLRT5KRMXLT PDU, 208 V (4) L6-20

SRT008: Dell Smart-UPS DLRT8KRMXLT PDU, 208 V (6) L6-30

Service bypass panels

SBP3000RM: APC Service Bypass PDU, 120 V; 30A; L5-30P Input; (4) NEMA 5-20R and (1) L5-30R Output, Supports Dell Smart-UPS DLRT3000RMXLA

SBP5KRMT2U: APC Service Bypass Panel - 200/208/240 V; 30A; BBM; L6-30P Input; (2) L6-30R (2) L6-20R Output, Supports Dell Smart-UPS DLRT5KRMXLT

SBP10KRMT4U: APC Service Bypass Panel - 200/208/240 V; 100A; MBB; Hardwire Input; (3) L6-30R (3) L6-20R Output, Supports Dell Smart-UPS DLRT8KRMXLT

Other

SURT013: SURT Equipment Cart

Replacement battery cartridge

APCRBC152 (DLRT3000RMXLA)

APCRBC140 (DLRT5KRMXLT and DLRT8KRMXLT)



Network Management Card



Battery Pack



Rail Kits



[DLRT3000RMXLA]

Dell Smart-UPS On-Line DLRT 3kVA – 8kVA

technical specifications

UPS Model	DLRT3000RMXLA	DLRT5KRMXLT	DLRT8KRMXLT
Output			
Power Capacity	2700 W / 3000 VA	4250 W / 5000 VA	8000 W / 8000 VA
Nominal Output Voltage	120 V	208 V (240 V user selectable)	
Output Frequency	50/60 Hz +/- 3 Hz (autosense) 50/60 Hz +/- 0.1Hz (user selectable)		
Efficiency online at full load	91.5% (ENERGY STAR)	94% (ENERGY STAR)	
Efficiency in green mode	97%	98.0%	98.5%
Topology and output waveform	Double conversion online; sine wave		
Output Connections	(8) 5-20, (1) L5-30	(2) L6-20R, (2) L6-30R	(6) L6-30R, HW
Switched outlet groups	2	3	3
Input			
Nominal input voltage	120 V	208 V (240 V user selectable)	
Input voltage range full load (half load)	108 - 150 V (60 - 150 V) ± 5V	160 – 275 V (100 – 275 V) ± 5V	
Input frequency	40 – 70 Hz auto-selecting		
Input connection	L5-30P	L6-30P	Hard Wire 3 wire (L1+L2+G)
Batteries			
Battery type	Maintenance-free sealed lead-acid battery with suspended electrolyte, leak proof		
Replacement battery (quantity)	APCRBC152	APCRBC140	2 x APCRBC140
Extended Run Battery Module	DLRT96RMBP	DLRT192RMBP	DLRT192RMBP2
Runtime Estimates			
at half and full load, minutes	1350 W / 2700 W	2125 W / 4250 W	4000W / 8000W
Internal battery only	10.3 / 3.2	12.6 / 4.4	14.4 / 5.2
1 x External Battery Pack	45.6 / 17.1	49 / 21.8	34.2 / 14.6
2 x External Battery Pack	80.8 / 31.1	87.8 / 40.4	55 / 24.4
3 x External Battery Pack	116.1 / 45.1	128.1 / 59.7	76.4 / 34.6
4 x External Battery Pack	151.3 / 59.1	169.5 / 79.5	98.3 / 45
Communication and management			
Interface ports	RJ-45 Serial, SmartSlot, USB	RJ-45 10/100 Base-T, RJ-45 Serial, SmartSlot, USB	
Control panel and audible alarms	Multi-function LCD status and control console, audible and visible alarms prioritized by severity		
Emergency power off (EPO)	Yes (NO/NC connections)		
Physical			
Rack height	2U	3U	6U
Maximum height	3.35", 85 mm, 8.5 cm	5.1", 130 mm, 13.0 cm	10.3", 263 mm, 26.3 cm
Maximum width	17", 432 mm, 43.2 cm	17", 432 mm, 43.2 cm	17", 432 mm, 43.2 cm
Maximum depth	25", 635 mm, 63.5 cm	28.3", 719 mm, 71.94 cm	28.2", 715 mm, 71.5 cm
Net weight	69 lbs, 31.3 kg	123 lbs, 54.43 kg	246 lbs, 111.82 kg
Conformance			
Regulatory	UL-1778, FCC Part 15 Class A, CSA, Energy Star	UL-1778, FCC Part 15 Class A, cUL	
Warranty	Three-year warranty (includes battery)		