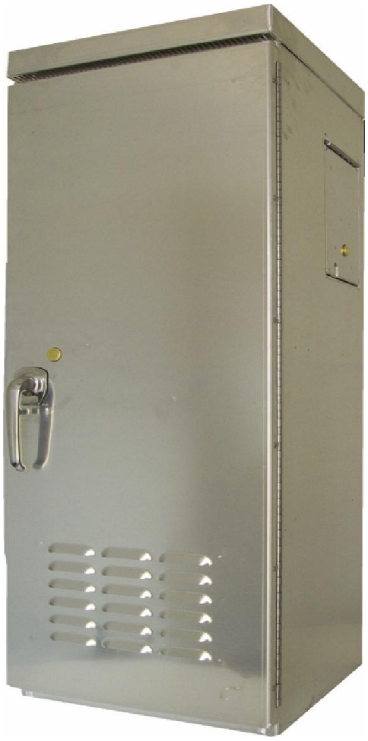
Applied Power Technologies Corp.

reliable power for your business

Emergency Lighting UPS APTC900R series

3Kva,6KVA and 10 KVA



Features

The following features are available on each Emergency Lighting UPS sys module:

- On-line topology provides continuous reliable power to critical equipment or lighting.
- Battery diagnostics to predict battery wear out.
- Battery alarm to alert user of battery status.
- Built-in self-test and site wiring test.
- Load indicator
  Indicating the percent of
  Load applied to the UPS

How the Emergency Lighting UPS Works

The APTC900R series protects your equipment from ac line sags and surges, line spikes, and power blackouts. Small ac line disturbances are automatically filtered out, while large or prolonged disturbances may cause power to be supplied by the internal batteries rather than the utility line. When the utility line returns to normal, the UPS will automatically resume supplying power from the utility line to your equipment

The APTC900R series UPS can feed you equipment on a continuous mode or in a standby mode.

Note: When running on battery power, the UPS will beep intermittently.
Press the silence button if you want to silence this alarm.

If the utility line does not return and the battery continues to power the load, a low battery shutdown will occur when the batteries are discharged. As shipped from the factory, an advance warning of a low battery condition begins approximately 2 minutes before the final shutdown. This alarm may be programmed to provide longer warning times if desired.

Main Features

• Pulse width modulation and IGBT technology provide tight output voltage regulation.
• Delivers highly-filtered, regulated, and spike-free power to emergency lighting fixtures and “Life Safety” devices.
• True, online double-conversion topology provides conditioned, regulated power and 100% reliability to emergency lighting loads.
• Uninterrupted, regulated, continuous sine wave output for use with “normally on” lighting fixtures and exit lamps.
• Standby output for use with “normally off” emergency lighting fixtures.
• Field-modifiable distribution.
• Short-circuit protected.
• Generator-compatible.
• 4-stage, temperature compensating smart charge.
• Optional control device override (wall switch, occupancy sensor, dimmer, etc).
• Optional zone sensing.
• Optional remote status panel and automatic phone dialer.
• Optional network connectivity.
• Auxiliary input command.
• High-speed static bypass.
• Variable-range logic provides added security during deep brownout conditions, without battery consumption — thus assuring that the batteries will be at full capacity for a power outage.

Standards

• ANSI / IEEE C62.41 Category B3
• NFPA 101
• NFPA 111 Stored Electrical Energy Emergency and Standby Power Systems. Meets SEPSS / ECE / Level 1 and Level 2 criteria for types O, U, A, B, and 10; and Classes up to and including Class 1.5
• NFPA 70 National Electric Code
• FCC Article 15, Subpart J, Class A
• IEC 555

Safety

• UL 924 Emergency Lighting Equipment
• UL 924 Auxiliary Power Supplies
• UL 1778 Uninterruptible Power Supplies
• NFPA 101, NFPA 111, NEC, and local codes

Front Access

Standard, 15-year pro-rated batteries are either self-contained or in a user-friendly battery cabinet with easy-access doors.
The APTC900R has a compact, space-saving “footprint”, and front access to accelerate installation, testing, and maintenance procedures.
The APTC900R offers a variety of special options
Consult factory for additional front access cabinet configurations using alternative runtimes.

Output Circuit Breakers

Output circuit breakers can be configured to supply power to different lighting loads at different voltages. Front-access to the standard input breaker and the optional output circuit breakers .
Meeting the need for flexible power distribution, circuit breakers can be added, subtracted, or moved without any complex or labor intense procedure.

SPECIFICATIONS

Model	APTC903R	APTC906R	APTC9010R
Capacity (Linear Load)	3KVA2100W	6KVA/4200W	10KVA/7000W
Input			
Voltage Range	Half-Load 120-300VAC, Full-	Load 165V-300VAC	176V-276VAC
Frequency	45.5Hz-54.5Hz		
Power factor	>0.95		
Output			
Voltage	/120/208/240/270V more o less 3%		
Frequency	50/60Hz+-0.5		
Distortion	< 3%(Linear Load); < 5%(Non linear Load)		
Waveform	True Sine Wave		
Efficiency	< or equal 85%		
Overload capability	110%-150%: Switch to Bypass after 1 Min: >150%shut down after 200ms		110-150% 10 Min >150%; shut down after 1Min
Crest Factor	3:10		
Short Circuit	UPS output turn off and alarm		
Battery			
Model	12V sealed VRLA maintenance free OR NI-CAD		
Voltage	96VDC		240VDC
Configuration	Per requirements		
Recharge Time	90% capacity after 8 hrs charging		
Charge Current	Standard Model :1A: Long time Model:5A		
Others			
EMS	IEC61000-4-2(ESD)		
	IEC61000-4-3- (RS)		
	IEC61000-4-4 (EFT)		
	IEC61000-4-5 (Surge)		
Noise (1m)	<62 dB		
Insulation resistance	>2M(500VDC)		
Dielectric strength	(input, output to PE)2820Vdc, leakage current lower than 3.5mA, no flash over in 1 minute		
Surge Protection	Meet the requirement of IEC60664-1 class IV, endure surge of 1.2/50us+8/20us higher than 6KV/3KA		
IP Class	IP20		
Battery configuration	Per requirements		
Installation / Connection	Top or bottom cable connection		
Operate temperature	0-40 grades C		
Relative Humidity	0-90 grades C (non-condensing)		
Noise dB	62		65
Weight (LB)	1060	1360	2,840
Dimension (W*D*H)(inch)	32 X 24 X 68		2(32X 24 X 68)