

Delta UPS Amplon Family

RT Series, Single-Phase 5/6/8/10 kVA, Three-Phase 10/15/20 kVA

Powering Your Vision, Protecting Your Future

Introducing the Amplon RT Series 5-20 kVA UPS: Compact yet powerful, it provides a unity output power factor and top efficiency, with up to 96.5% AC-AC efficiency. It also features Li-ion battery compatibility for enhanced density and sustainability. With optional complete power solutions like the Maintenance Bypass Breaker and Rack Remote Power Panel integration, it ensures seamless operation for critical applications.



Efficiency and Reliability

- Best-in-class AC-AC efficiency of up to 96.5% and 99% in ECO mode for lower energy costs
- Wide input voltage range for operation in harsh environments and extended battery life
- AC-start function enables the UPS to switch on without battery connection
- Hot-swappable batteries for continuous operation during replacements

Availability and Flexibility

- Unity output power factor ensures no de-rating with loads
- Up to 4 units parallel capacity for redundancy and load expansion
- Programmable load bank disconnects non-critical loads during blackouts, saving battery power for critical loads
- VRLA and Li-ion External Battery Cabinet (EBC) for scalable runtime
- Extended Runtime models support flexible battery quantity, reducing maintenance costs
- The Power Distribution Box (PDB) and Maintenance Bypass Breaker (MBB) come standard with RT 5-10 kVA Standard Runtime models, simplifying configuration

Manageability

- User-friendly LCD display for excellent local management
- Intelligent battery management for extended life and maximum performance
- Free UPS management software and multiple communication interfaces ensure seamless remote monitoring and device protection



IT



Telecom



Industrial



Transportation



Financial



Government



SME



Retail



Technical Specifications

| Model | RT-5K | RT-6K | RT-8K | RT-10K | RT-10K-3P | RT-15K-3P | RT-20K-3P |
|----------------------------------|---|--|---------------|--|---|----------------------------------|-------------------------------------|
| Topology | Online double-conversion | | | | | | |
| Power Rating | 5 kVA 5 kW | 6 kVA 6 kW | 8 kVA 8 kW | 10 kVA 10 kW | | 15 kVA 15 kW | 20 kVA 20 kW |
| Parallel Configuration | Up to 4 units | | | | | | |
| INPUT | | | | | | | |
| Nominal Voltage | 200/ 208/ 220/ 230/ 240 Vac, 1P2W+PE | | | | 380/ 400/ 415 Vac. 3P4W+PE | | |
| Voltage Range | 175-280 Vac (100% load); 100-175 Vac (with derating to 50-100% load) | | | | 305-485 Vac (100% load); 138-305 Vac (with derating to 40-100% load) | | |
| Frequency Range | 40-70 Hz | | | | | | |
| Total Harmonic Distortion (THDi) | < 3% | | | | | | |
| Power Factor | > 99% (100% load) | | | | | | |
| Connection | Input terminal | | | | Input terminal x1, Bypass input terminal x1 | | |
| OUTPUT | | | | | | | |
| Nominal Voltage | 200/ 208/ 220/ 230/ 240 Vac, 1P2W+PE | | | | 380/ 400/ 415 Vac. 3P4W+PE or 220/ 230/ 240 Vac, 1P2W+PE | | |
| Voltage Regulation | ±1% | | | | | | |
| Frequency | 50/60 ± 0.05 Hz | | | | | | |
| Total Harmonic Distortion (THDv) | < 2% (linear load), < 4% (non-linear load) | | | | | | |
| Power Factor | 1 | | | | | | |
| Connection | Standard ⁽²⁾ | C13 x6, C19 x2, Terminal x1, Programmable C19 outlet x1 | | C13 x6, C19 x4, Terminal x1, Programmable C19 outlet x1 | | Terminal x1 | |
| | Extended ⁽²⁾ | Terminal x1, Programmable terminal x1 | | | | | |
| Overload Capability | 106-125%: 2 mins; 126-150%: 1 min; > 150%: 500 ms 106-125%: 2 mins; 126-150%: 30 secs; > 150%: 200 ms | | | | | | |
| Current Crest Ratio | 3:1 | | | | | | |
| EFFICIENCY | | | | | | | |
| Online Mode | Up to 95.5% | | | | Up to 96% | Up to 96.5% | |
| Eco Mode | Up to 99% | | | | | | |
| BATTERY | | | | | | | |
| Battery Type | VRLA/ Lithium-ion | | | | | | |
| Nominal Voltage | Standard | 192 Vdc | | 240 Vdc | | 144 ⁽¹⁾ , 192-264 Vdc | ±144 ⁽¹⁾ , ±192-±264 Vdc |
| | Extended | 144 ⁽¹⁾ , 192-264 Vdc | | | | | |
| Charge Current | Standard | 1 A (default), up to 8 A | | 1.5 A (default), up to 8 A | | Up to 8 A | |
| | Extended | Up to 8 A | | | | | |
| COMMUNICATION INTERFACE | | | | | | | |
| Display | Graphical LCD display with LED indicators | | | | | | |
| Port | USB, RS-485, Mini Slot, REPO, Input dry contact x1, Output dry contact x3 | | | | | | |
| PHYSICAL | | | | | | | |
| Dimensions (W x D x H) | Standard | 440 x 665 x 176 mm | | 440 x 750 x 218 mm | | 440 x 649 x 88.2 mm | 440 x 760 x 88.2 mm |
| | Extended | 440 x 430 x 88.2 mm | | 440 x 565 x 88.2 mm | | | |
| Net Weight | Standard | 54 kg | | 85.5 kg | | | |
| | Extended | 10.9 kg | | 15.2 kg | | 16.6 kg | 22 kg 22.5 kg |
| ENVIRONMENT | | | | | | | |
| Operating Temperature | 0 to 55 °C (45 to 55 °C de-rating to 75% load) | | | | | | |
| Humidity | 5-95% (non-condensing) | | | | | | |
| Audible Noise | < 48 dBA | | < 50 dBA | | | < 54 dBA | |
| Altitude | 0-3000 m (derating 1%/100 m from 1000-3000 m) | | | | | | |
| Ingress Protection | IP20 | | | | | | |
| CONFORMANCE | | | | | | | |
| Safety | CE, UKCA, UL/cUL, TISI, RCM, BIS, BSMI | | | | | | |
| EMC | IEC 62040-2 | | | | | | |
| Performance | IEC 62040-3 | | | | | | |
| Sustainability | RoHS, REACH, Energy Star | | | | | | |

(1) Derating to 70% load

(2) Standard model: built-in batteries; Extended model: capability to add external battery packs

All specifications are subject to change without prior notice.



Delta Group



Delta Power Solutions



Delta ICT LinkedIn



Delta ICT YouTube

