

# ARTronic® UPS

## On Line Uninterruptible Power Supply

ARTon Titanium RM Series 1-3 / 6-10 kVA



### Specifications

- True double-conversion
- Microprocessor control optimizes reliability
- Input power factor correction
- Output power factor 0.9
- Wide input voltage range
- Converter mode available
- ECO mode for energy saving only available for 1-3KVA models
- Generator compatible
- Adjustable charging current via LCD or software (1A-6A)
- Emergency power off function (EPO) only available for 6K/10K models
- Comprehensive display allows easy monitoring and access of UPS status



General Application Areas:



Datacenter



Finance



Medical



Telecom

# ARTon Titanium RM Series 1-3 / 6-10 kVA Technical Specifications

MODEL		ARTon Titanium RT 1 kVA		ARTon Titanium RT 2 kVA		ARTon Titanium RT 3 kVA		ARTon Titanium RM 6 kVA		ARTon Titanium RM 10 kVA	
Phase		Single phase with ground									
Capacity		1000 VA / 900 W		2000 VA / 1800 W		3000 VA / 2700 W		6000 VA / 5400 W		10000 VA / 9000 W	
Input											
Nominal Voltage		100 / 110 / 115 / 120 / 127 VAC or 200 / 208 / 220 / 230 / 240 VAC						208 / 220 / 230 / 240 VAC			
Input Voltage Range		60-145 VAC or 120-300 VAC at 50% load 90-140 VAC or 180-280VAC at 100% Load						110-300 VAC ± 3% at 50% Load 176-300 VAC ± 3% at 100% Load			
Frequency Range		40Hz ~ 70 Hz						46Hz ~ 54 Hz or 56Hz ~ 64 Hz			
Power Factor		≥ 0.99 @ Nominal Voltage (100% load)									
Output											
Output Voltage		100 / 110 / 115 / 120 / 127 VAC or 200 / 208 / 220 / 230 / 240 VAC						208 / 220 / 230 / 240 VAC			
Voltage Regulation		± 1%						± 1%			
Frequency Range (Synchronized Range)		47~ 53 Hz or 57 ~ 63 Hz						46Hz ~ 54 Hz or 56Hz ~ 64 Hz			
Frequency Range (Batt. Mode)		50 Hz ± 0.25 Hz or 60Hz ± 0.3 Hz						50 Hz ± 0.1 Hz or 60 Hz ± 0.1 Hz			
Current Crest Ratio		3:1									
Harmonic Distortion		≤ 3 % THD (Linear Load), ≤ 6 % THD (Non-linear Load)						≤ 3 % THD (Linear Load), ≤ 6 % THD (Non-linear Load)			
Transfer Time	AC Mode to Battery Mode	Zero						0ms			
	Inverter to Bypass	4 ms (Typical)						0ms			
Waveform (Batt. Mode)		Pure Sinewave									
Efficiency											
AC Mode		88%		89%		90%		91%		92%	
Battery Mode		83%		87%		88%		88%		89%	
Battery											
Standard Model	Battery Type	12 V / 9 AH		12 V / 9 AH		12 V / 9 AH		12 V / 9 AH			
	Numbers	2		4		6		20 pcs ( 18pcs Adjustable)			
	Typical Recharge Time	4 hours recover to 90% capacity						4 hours recover to 90% capacity			
	Charging Current	3.5A Charger on Standard Model						2A/4A Adjustable			
	Charging Voltage	27.4VDC ± 1%		54.7 VDC ±1%		82.1 VDC ±1%		218.4VDC ± 1%	273 VDC ± 1%	218.4VDC ± 1%	273 VDC ± 1%
Long-run Model	Battery Type	Depending on the capacity of external batteries						Depending on applications			
	Numbers	2	3	4	6	8	6	8	18 - 20 pcs (Adjustable)		
	Charging Current (max.)	1.0A/2.0A/4.0A/6.0A						1A/2A/4A/6A (Adjustable, 6A is only available for 16pcs batteries)			
	Charging Voltage	27.4VDC ± 1%	41.0VDC ± 1%	54.7 VDC ±1%	82.1 VDC ±1%	109.4VDC ±1%	82.1 VDC ±1%	109.4VDC ±1%	218.4 VDC ± 1% (Based on 16pcs batteries)		
Indicators											
LCD Panel		UPS status, Load level, Battery level, Input/Output voltage, Discharge timer, and Fault conditions									
Alarm											
Battery Mode		Sounding every 4 seconds									
Low Battery		Sounding every second									
Overload		Sounding twice every second									
Fault		Continuously sounding									
Physical											
Standard Model	Dimension, D x W x H (mm)	310 x 438 x 88		410 x 438 x 88		630 x 438 x 88		UPS Unit: 580x438x133(3U) Battery Pack: 688x438x88(2U)	UPS Unit: 580x438x133(3U) Battery Pack: 580x438x133(3U)	UPS Unit: 688x438x133(3U) Battery Pack: 16: 688x438x88(2U) 20: 580x438x133(3U)	
	Net Weight (kgs)	12		19		29.3		UPS: 17 Battery Pack: 48	UPS: 17 Battery Pack: 57	UPS: 20 Battery Pack: 51	UPS: 20 Battery Pack: 63
Long-run Model*	Dimension, D x W x H (mm)	310 x 438 x 88		410 x 438 x 88				580x438x133 (3U)		668x438x133 (3U)	
	Net Weight (kgs)	9		12		14.2		17		20	
Environment											
Humidity		20-90 % RH @ 0- 40°C (non-condensing)						0-95 % RH @ 0- 40°C (non-condensing)			
Noise Level		Less than 50dBA @ 1 Meter						Less than 55dBA @ 1 Meter		Less than 58dBA @ 1 Meter	
Management											
Smart RS-232 / USB		Supports Windows® 2000/2003/XP/Vista/ 2008, Windows® 7/8, Linux, Unix and MAC									
Optional SNMP		Power management from SNMP manager and web browser									

\*Long-run model is only available in 200/208/220/230/240VAC systems.

\*\*Derate to 80% of capacity in Frequency converter mode and to 80% when the output voltage is adjusted to 100/200/208VAC

Product specifications are subject to change without further notice

# ARTronic®

The art of electronics

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