

# ARTronic® UPS

On Line Uninterruptible Power Supply  
ARTon Titanium **Plus** Series 1-2-3 kVA



- First Class Double Conversion Uninterruptible Power Supply
- DSP Controlled High Reliability
- Output Power Factor: 0,8
- Graphic LCD Display and User Friendly Control Keys
- Green Energy with Input Power Factor (PFC) > 0,99
- 95% Efficiency with ECO Mode, 50/60 - 60/50 Runing with Converter Mode
- Emergency Power Off Function (EPO), Operating Temperature 0°C ~ 45°C
- Ultra Wide Input Voltage Tolerance (110 ~ 300 VAC)
- Short Recharge Time (5 hours) & Long Backup Options
- Free of Charge, Network Supported Monitoring & Control Software
- SNMP & AS400 Network Monitoring Options
- Silent & Economic Operation with Adjusted Fan Speed
- Automatic Restart & Control Start Operation



**Our work is power !**



THE ART OF ELECTRONICS

# ARTon Titanium Plus Series 1-2-3 kVA Technical Specifications

MODEL	ARTon Titanium 1	ARTon Titanium 2	ARTon Titanium 3
Capacity (VA/Watt)	1000 VA / 800 Watt	2000 VA / 1600 Watt	3000 VA / 2400 Watt
<b>Input - Rectifier</b>			
Voltage - Voltage Tolerance	220 VAC, 1 Phase + Neutral, 110 ~ 300 VAC		
Voltage Tolerance According to Load %	Transfer to battery at 110 VAC for 0~60% load, 120 VAC for 61~70% load, 140 VAC for 71~80% load, 160 VAC for 81~100% load (Tolerance $\pm 5\%$ ) Transfer to battery at 300 VAC for 0~100% load, transfer back to the mains at 285 VAC for 0~100% load		
Power Factor	$\geq 0.99$		
Current (maximum)	5 A	9.6 A	12 A
Frequency	46 ~54 Hz		
<b>Output - Inverter &amp; Bypass</b>			
Power Factor	0.8		
Voltage - Voltage Tolerance	220 VAC $\pm 2\%$		
Dynamic Response	Maximum Deviation $\leq 6\%$ at 20-100% Load Change, $\leq 9\%$ at 0-100% Load Change		
Correction Time	100 mili seconds to be with in $\pm 2\%$ Static Tolerance at 0-100-0 % Load Change		
Frequency - Frequency Tolerance	50 Hz, $\pm 0.2$ Hz for Battery Operation		
Voltage Waveform	Pure Sine Wave		
Total Harmonic Distorsion	$\leq 3\%$ at linear load	$\leq 3\%$ at linear load	
Crest Factor	3 : 1		
Overload Capacity	30 seconds for 110~150%, 300 mili seconds for > 150% Over Load		
Short Circuit Protection	Electronic Short Circuit Protection		
Bypass & Transfer Time	Standard Static Bypass, 0 (zero) for Line Mode to Battery Mode, 2.5 mili seconds for Inverter to Bypass Mode		
Bypass Tolerance & Adjustment	80 ~286 VAC Adjustable, Bypass can be Disable or Enable to Use in Standby Mode		
<b>Battery</b>			
Type & Placement	Maintenance Free Dry Type Battery, Internal or External Regarding to Demand		
Capacity & Quantity	12 V 7 Ah x 3 pieces	12 V 7 Ah x 8 pieces	12 V 7 Ah x 8 pieces
Backup Time (100% SMPS Load)	8 minutes	13 minutes	6 minutes
Float Charge Voltage	41.1 $\pm$ 0.6 VDC	110 $\pm$ 0.4 VDC	
End of Discharge Voltage	30 VDC	80 VDC	
Battery Charge Current & Charge Time	Standard 1 Amper Charge Current, 5 hours Charge Time to 90% Capacity After Discharge, Optional High Capacity Charger for Long Backup Demand		
<b>Indications &amp; Control Panel</b>			
Type	Graphic LCD Panel		
Control Panel	Touchpad Buttons (On/off, Audible Alarm Disable, Up/Down, Enter)		
Measurements & Warnings	UPS Status, Input/Output Voltage & Frequency, Load % , Battery Capacity & Voltage, Warning & Alarm Messages		
Indications (LCD)	Mimic Diagram for Energy Flow, Measurements, Warnings, Faults, Adjustments ECO Mode, Converter Mode		
<b>Protections</b>			
Over Load	60sn at 105 % ~ 110 % Load, 30 sn at 111% ~ 125 % Load, 10sn at 126% ~ 150% Load, 1sn at 150 % Load Transfer to Bypass Without Any Break After Over Load Period		
Short Circuit	Automatic Inverter Shutdown		
Over Temperature	Load Transfer to Bypass for 90°C Internal Temperature, Transfer Back to Inverter When Internal Temperature < 80°C		
Modem / Network Protection	Surge Protection for Modem / Network Line		
<b>Audible Warnings</b>			
Warning Type and Warnings	Buzzer, Mutable with Audible Alarm Disable Different Audible Signals for Battery Operation, Battery Low Voltage, UPS Fault, Over Load		
<b>Communications</b>			
Interface & Protocol	Smart RS232 Communication with DB9 Port, Optional SNMP or AS 400 Support		
Software	Free of Charge, Network Supported Monitoring & Control Software, Software Supports Windows 98 / ME / 2000 / XP / 2003, Linux, Sun Solaris 7 / 8 / 9, IBM Aix 4.3 & 5.1x, HP-UX 11.x, Compaq True 64, SGI Irix, Free BSD, Unix Systems, MAC Supported		
<b>General</b>			
Efficiency - AC to AC at 100% / at ECO Mode	87 % / 95 %	88 % / 95 %	88 % / 95 %
Noise Level	< 45 dBA	< 50 dBA	
Electro Magnetic Compatibility	EN 62040-1, EN 62040-2, 62040-3, EN 60950-1, EN 61000-4-2, EN 61000-4-3, EN 61000-4-4, EN 61000-4-5		
Operating Temperature & Humidity	0°C ~ 45°C, Maximum 20 ~ 90 % (Non Condensed)		
Storage Temperature	-20°C ~ 70°C		
Protection Class	IP 20		
Cooling Type	Forced Cooling Fan with Adjusted Speed		
Operating Altitude	< 1000 meters (from Sea Level)		
Dimensions (mm), W x H x D	145 x 220 x 400	192 x 340 x 460	
Weight, without / with Battery (kg)	7 / 14	15 / 34,5	16 / 35,5

\* Product specifications are subject to change without further notice to third parties. © 2007 ARTronic Elektronik A. Ş.

# ARTronic®

The art of electronics

Tel: +90 (216) 365 82 21 / Fax: +90 (216) 420 97 70

artronic@artronic.com.tr [www.artronic.com.tr](http://www.artronic.com.tr)