

ARTronic® UPS

On Line Uninterruptible Power Supply ARTon Titanium Series 6-10-15-20 kVA

Highest Reliability with Digital Signal Processor (DSP) Control
Power Extension & Redundancy with Parallel / Redundant Operation



- VFI Topology Class1 Double Conversion UPS
- Graphic LCD Display and Touchpad Control Keys
- Green Energy with Input Power Factor Correction (PFC)
- Automatic Restart & Cold Start Function
- Network Supported Monitoring & Control Software
- SNMP & AS400 Network Monitoring Options
- Silent & Economic Operation with Adjusted Fan Speed
- Integrated Maintenance Bypass Switch



3 Units in Parallel / Redundant Operation

Our Power
Is Your Safety!



THE ART OF ELECTRONICS

ARTon Titanium Series 6-10-15-20 kVA Technical Specifications

| MODEL | ARTon Titanium 6 | ARTon Titanium 10 | ARTon Titanium 3.1 10 | ARTon Titanium 3.1 15 | ARTon Titanium 3.1 20 |
|--|---|------------------------|----------------------------|------------------------|------------------------|
| Capacity (VA/Watt) | 6000 VA / 4200 Watt | 10000 VA / 7000 Watt | 10000 VA / 7000 Watt | 15000 VA / 10500 Watt | 20000 VA / 14000 Watt |
| 3 In Parallel Capacity (VA/Watt) | 18000 VA / 12600 Watt | 30000 VA / 21000 Watt | 30000 VA / 21000 Watt | 45000 VA / 31500 Watt | 60000 VA / 42000 Watt |
| Input - Rectifier | | | | | |
| Voltage, Phase | 220 VAC, 1 Phase + Neutral | | 380 VAC, 3 Phase + Neutral | | |
| Voltage Tolerance | 176 ~ 276 VAC \pm 3% | | 304 ~ 478 VAC \pm 3% | | |
| Power Factor | \geq 0,98 | \geq 0,98 | \geq 0,95 | \geq 0,95 | \geq 0,95 |
| Current (maximum) | 23 A | 37 A | 13 A / Phase - 39 A | 23 A / Phase - 69A | 30,3 A / Phase - 91 A |
| Frequency | 46 ~54 Hz, Adjustable to Work with Any Generator | | | | |
| Output - Inverter & Bypass | | | | | |
| Power Factor Range | 0.65 ~1.0 | | | | |
| Voltage - Voltage Tolerance | 220 / 230 / 240 VAC \pm 1% | | | | |
| Dynamic Response | Maximum Deviation \leq 5% at 50-100-50 % Load Change | | | | |
| Correction Time | 60 mill seconds to be with in \pm 1 % Static Tolerance at 0-100-0 % Load Change | | | | |
| Frequency - Frequency Tolerance | 50 Hz, \pm 0,05 Hz for Battery Operation | | | | |
| Voltage Waveform | Pure Sine Wave | | | | |
| Total Harmonic Distorsion (THD) | \leq 2 % at linear load, \leq 6 % at non linear load | | | | |
| Crest Factor | 3 : 1 | | | | |
| Overload Capacity | 10 minutes for 105~130 %, > 130 % Transfer to Bypass After 1 second, Shutdown After 1 minute (in Line Mode) | | | | |
| Short Circuit Protection | Electronic Short Circuit Protection | | | | |
| Bypass & Transfer Time | Standard Static Bypass, 0 (zero) for Line Mode to Battery and Inverter to Bypass Mode | | | | |
| Bypass Tolerance & Adjustment | 176 ~ 261 VAC Adjustable, Bypass can be Disable or Enable to Use in Standby Mode | | | | |
| Battery | | | | | |
| Type & Placement | Maintenance Free Dry Type Battery, Internal or External Regarding to Demand | | | | |
| Capacity & Quantity | 12 V 7 Ah x 20 pieces | 12 V 9 Ah x 20 pieces | 12 V 9 Ah x 20 pieces | 12 V 7 Ah x 40 pieces | 12 V 9 Ah x 40 pieces |
| Backup Time (100% / 50% Load) | 10 / 25 minutes | 6 / 15 minutes | 6 / 15 minutes | 6 / 15 minutes | 6 / 15 minutes |
| Nominal / Charge Voltage | 240 / 274 VDC \pm 1% | 240 / 274 VDC \pm 1% | 240 / 274 VDC \pm 1% | 240 / 274 VDC \pm 1% | 240 / 274 VDC \pm 1% |
| End of Discharge Voltage | 220 \pm 3 VDC | 220 \pm 3 VDC | 220 \pm 3 VDC | 220 \pm 3 VDC | 220 \pm 3 VDC |
| Battery Charge Current & Charge Time | Standard 2 A Charge Current for 6-10 kVA, 7-8 hours Charge Time to 90% Capacity After Discharge, 4.2 A Charge Current for 3,1 10-15-20 kVA | | | | |
| Indications & Control Panel | | | | | |
| 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) | Miimic Diagram for Energy Flow, Measurements, Warnings, Faults, Adjustments | | | | |
| Protections | | | | | |
| Over Load | Electronic Protection, 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 | | | | |
| Audible Warnings | | | | | |
| Warning Type and Warnings | Buzzer, Mutable with Audible Alarm Disable | | | | |
| | Different Audible Signals for Battery Operation, Battery Low Voltage, UPS Fault, Over Load | | | | |
| Communications | | | | | |
| 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 / NT / 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 | | | | |
| General | | | | | |
| Efficiency - AC to AC at 100% | 88 % | 89 % | 89 % | 88 % | 88 % |
| Noise Level | < 55 dBA | < 55 dBA | < 60 dBA | < 60 dBA | < 60 dBA |
| Electro Magnetic Compatibility | EN 62040-2 (EM), EN 61000-4-2 (ESD), EN 61000-4-3 (RS), EN 61000-4-4 (EFT), EN 61000-4-5 (Surge) | | | | |
| Operating Temperature & Humidity | 0°C ~ 40°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 | 260 x 717 x 570 | 260 x 717 x 570 | 260 x 717 x 570 | 260 x 717 x 570 | 260 x 717 x 570 |
| Weight, without / with Battery (kg) | 35 / 84 | 38 / 93 | 38.5 / 104 | 55 / 169 | 55 / 177 |

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

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