

ARTronic® UPS

On Line Uninterruptible Power Supply

ARTon Optimum Series 1-2-3-6-10 kVA



- Economical Product / High Performance
- High Input Power Factor, ≥ 0.98
- Ultra Wide Voltage Tolerance (110~276 VAC)
- Sensitive Voltage Regulation
- Energy Saving With High Efficiency
- Zero Transfer Time From Mains/Battery
- Touchpad Control Panel
- LCD Display With Illuminated Background
- Network Supported Monitoring and Control Software



6 / 10 kVA
Front View

Our work is power !



THE ART OF ELECTRONICS



Rear Panel Views

ARTronic Optimum Series 1-2-3-6-10 kVA Technical Specifications

MODEL	Optimum 1kVA	Optimum 2kVA	Optimum 3kVA	Optimum 6kVA	Optimum 10kVA
Power, VA / Watt	1000 VA / 700 W	2000 VA / 1400 W	3000 VA / 2100 W	6000 VA / 4200 Watt	10000 VA / 7000 W
Input - Rectifier					
Voltage & Voltage Tolerance	176 ~ 276 VAC at full load (110 ~ 276 VAC at 50% load), 1phase + neutral				
Maximum Current	5 A	10 A	15 A	30 A	47 A
Starting Current & Protection	≤ Inom, Input Automatic Fuse (MCB)				
Frequency & Frequency Tolerance	50 / 60 Hz ± 8%				
Current Harmonic Distortion	< 12% THD			< 10% THD	
Power Factor	≥ 0.98				
Generator Input	Support				
Output - Inverter & Bypass					
Power Factor	0.7				
Voltage & Voltage Tolerance	208 / 220 / 230 / 240 VAC ± 2%				
Frequency & Frequency Tolerance	50 Hz, mains synchronized ± 1 % (adjustable up to ± 8 %), ± 0.1 Hz for battery operation				
Outlet or Terminal	2 pcs.	3 pcs.	3 pcs.	Terminal block	
Output Wave Form	Pure Sinewave				
Voltage Harmonic Distortion	≤ 4% THD (Linear Load), ≤ 7% THD (Non-Linear Load)				
Current Crest Ratio	3:1				
Overload Capacity	60 seconds at 100~130% load, 1 second at > 130% load				
Short Circuit Protection	Electronic Short Circuit Protection				
Static Bypass & Manual Bypass	Standard Static Bypass, Manuel Bypass (Optional)				
Bypass Voltage & Tolerance	220 VAC, 176~276 VAC				
Bypass Frequency	50 Hz ± 8%				
Transfer Time	0 (zero) Transfer Time for Mains/Battery Operation, 5 milliseconds for Inverter/Bypass				
Battery					
Number of Batteries Per Set	2 pcs. 12 V 9 Ah	4 pcs. 12 V 9 Ah	6 pcs. 12 V 9 Ah	12 pcs. 12 V 9 Ah	16 pcs. 12 V 9 Ah
Backup Time (At 100% / 50% load)	5 min. / 12 min.	5 min. / 12 min.	5 min. / 12 min.	5 min. / 12 min.	5 min. / 12 min.
Float Charge & End of Discharge Voltage	24 VDC / 20 VDC	48 VDC / 40 VDC	72 VDC / 60 VDC	144 VDC / 120 VDC	192 VDC / 160 VDC
Battery Placement	Internal, External (Optional)				
Charging current & Recharge Time	Standard 1A Charge Current , 5-8 Hours Charge Time to 90% Capacity After 100% Discharge				
Environment Temperature (in ideal)	17 °C ~ 25 °C				
Battery Protection & Test	Electronic Protection / Manually Testing Over Control Panel or Testing by Software				
Indicators & Control Panel					
Type	Graphic LCD Panel With Illuminated Background and Symbolic Mimic Diagram				
Control Panel	Touchpad Control Panel; On/Off, Bypass, Battery Test				
Measurements and Indications	Load and Battery Capacity, Input/Output Voltage and Frequency, Inverter-Bypass-Battery Operation Warnings and Error Codes				
Audible Alarms	Sounding every 4 seconds for battery mode, Sounding every second for low battery, sounding twice every second for overload, continuously sounding for fault				
Communication					
Interface & Protocol	Standard DB9 (Female) Smart RS232 Port, SNMP / AS400 / RS485 (External Type, Optional)				
Software, Free Charge of Winpower	Network Supported, Windows Family, Linux, Sun Solaris, IBM Aix, Compaq True64, SGI Irix, FreeBSD, HP-UX and Apple Macintosh				
General					
Efficiency (AC to AC at 100% load)	86%			88%	
Noise Level	< 45 dB, at 1 meter			< 55 dB, at 1 meter	
Standards & Electromagnetic Compatibility	EN 62040-1-1, EN 62040-2, EN 61000-2-2, EN 61000-3-2, EN 61000-3-3, EN 61000-4-2, EN 61000-4-3, EN 61000-4-4, EN 61000-4-5, EN 61000-4-6, EN 61000-4-8			EN 62040-1-1, EN 62040-2, EN 61000-4-2, EN 61000-4-3, EN 61000-4-4, EN 61000-4-5	
Operating Temperature & Humidity	0°C ~ +40 °C, < 0-95 % (Non Condensed)				
Storage Temperature	- 20°C ~ + 70 °C				
Protection Class	IP 20				
Cooling Type	Cooling Fan for Ventilation				
Operating Altitude	< 1000 meters at Nominal Load (from Sea Level), up to 4000 meters with less load				
Dimensions (mm) - W x H x D	144 x 220 x 345	190 x 318 x 369	190 x 318 x 369	200 x 735 x 509	200 x 735 x 509
Weight (kg) - With/Without Battery	10.4 / 5.2	21.2 / 10.8	26.4 / 10.8	64.6 / 33.4	75 / 33.4

*Product specifications are subject to change without further notice to third parties. © 2008 ARTronic Elektronik San. Müm. Tic. Ltd. Şti

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