

Marathon Power Tri-Athlon Series UPS Technical Specifications

Model	Tri-Athlon10K	Tri-Athlon15K	Tri-Athlon20K			
Capacity	10kVA / 10kW	15kVA / 15kW	20kVA / 20kW			
Input						
Nominal Voltage	208/120V or 220/127V, 50/60Hz, 3-Phase, 4-Wire Plus Ground					
Operating Voltage Range	+25% -25% (96-150V or 102-159V) at Full Load; -40% +25% (72-150V or 76-159V) at <50% Load					
Operating Frequency Range	40-70Hz					
Power Factor (full load/half load)	0.99 (40% linear load)					
Harmonic Distortion	<2% (100% non-linear load)					
Bypass Voltage Range	Max. voltage: +10, +15, +20 or 25% (default: +20) Min. voltage: -10, -20, -30 or -40 (default: -30)					
Generator Input	Supported					
Output						
Output Voltage	208/120V or 220/127V, 50/60Hz, 3-Phase, 4-Wire Plus Ground					
Voltage Regulation	± 1%					
Power Factor	1.0					
Output Frequency	Line Mode: synchronize with input; when input frequency > ±10% (±1% / ±2% / ±4% / ±5% optional), output (50/60 ±0.1% Hz). Battery Mode: (50/60 ±0.1% Hz)					
Crest Factor	3:1					
Harmonic Distortion (THD)	<1% with linear load; <3% with non-linear load					
Efficiency	Up to 94%					
System Features						
Transfer Time	Utility to Battery: 0ms; Utility to Bypass: 0ms					
Overload Line Mode	Load ≤110% last 60 min, ≤125% last 10 min, ≤150% last 1 min, >150% change to bypass immediately					
Overload Battery Mode	Load ≤110% last 10 min, ≤125% last 1 min, ≤150% last 5S, >150% shut down UPS immediately					
Overload Bypass Mode	Breaker 40A	Breaker 63A	Breaker 80A			
Alarm	Overload, Utility Abnormal, UPS Fault, Battery Low, etc.					
Protection	Short Circuit, Overload, Over Temperature, Battery Low, Fan Fault Alarm					
Communication	USB, RS-485, Parallel Port, Coupler Dry Contact, Battery Temperature Sensor, Intelligent Slot for Optional SNMP Card, Relay Card					
Environmental						
Operating Temperature	0°C ~ 40°C / 32°F ~ 104°F					
Storage Temperature	-25°C ~ 55°C / -13° F ~ 131° F (no batteries)					
Humidity Range	0 ~ 95% (non-condensing)					
Altitude	<1500m / 4500ft. When > 1500m / 4500ft, lower the rated power for use					
Noise Level	<55dB from 1m	<55dB from 1m	<58dB from 1m			
Standards						
Safety	UL 1778, IEC/EN 62040-1, IEC/EN 60950-1					
EMC	FCC Part15:2015, IEC/EN62040-2, IEC61000-4-2, IEC61000-4-3, IEC61000-4-4, IEC61000-4-5, IEC61000-4-6, IEC61000-4-8					
Standard Unit w/ Internal Batteries						
Part Number	Weight	Dimension (WxHxD)	Battery DC Voltage	Built-in Charger	Internal Battery Quantity	Max. Qty
ATWS-10003-02	136kg (299.8lbs)	250 x 868 x 900mm 9.8 x 34.2 x 35.4in	±120Vdc	1.35A*	20pcs 12V/9Ah	60
ATWS-15003-02	188kg (414.5lbs)			2.70A*	40pcs 12V/9Ah	60
ATWS-20003-02	239kg (526.9lbs)			4.05A*	60pcs 12V/9Ah	60
Standard Unit w/o Internal Batteries						
Part Number	Weight	Dimension (WxHxD)	Battery DC Voltage	Built-in Charger	Internal Battery Quantity	Max. Qty
ATWN-10003-02	77kg (169.8lbs)	250 x 868 x 900mm 9.8 x 34.2 x 35.4in	±96VDC / ±108VDC / ±120VDC / ±132VDC / ±144VDC	20A*	N/A	N/A
ATWN-15003-02	78kg (172lbs)					
ATWN-20003-02	79kg (174.2lbs)					
External Battery Pack						
Model	Weight		Dimensions (WxHxD)			
ABPT-4207-120	260kg (573.2lbs)		250 x 868 x 900mm 9.8 x 34.2 x 35.4in			
ABPT-4209-120	261kg (575.4lbs)					

*Battery charger current can be adjusted according to battery quantity, battery capacity and total number of strings