

Alpha Traffic Mini BBS

Alpha Traffic Mini Battery Backup Systems



Your Power Solutions Partner

- Consolidated battery backup system (BBS) designed to power ATC, NEMA M, P & 336 (or similar style) traffic controller cabinets
- Ideal solution for space constraint applications providing >4 hours of battery runtime*
- Self-contained UPS, factory wired, tested and ready to install, reducing installation time and cost**
- Alpha's "No Worries" 5 Year Warranty full replacement with AlphaCell™ 100XTV batteries
- Compact, integrated 350W or 1000W battery backup system, utilizing the same design and similar features of the highly successful and reliable FXM series UPS

Alpha Traffic Mini Battery Backup Systems (BBS) is a rugged enclosure made of 0.125" aluminum and designed to easily accommodate an Alpha uninterruptible power supply, Universal Automatic Transfer Switch and up to four AlphaCell™ 100XTV or two 195/220 GXL's. The Traffic Mini BBS is an outdoor-rated (NEMA 3R) enclosure. Features include: drop down lift off door, Type 2 Corbin lock, integrated document holder, tamper switch, wide range Automatic Voltage Regulation (AVR), remote monitoring/control and temperature compensated battery charging for extended battery life. The Alpha Traffic Mini BBS provides constant, reliable backup power for Traffic, ITS, Access Control, Security, Public Utility and Telecommunications applications in a compact, all-in-one enclosure. The Alpha Traffic Mini BBS series provides the same functionality as the Alpha class leading FXM Series, for lower power space constraint applications, in a single easy to install cabinet with a favorable curb appeal.

*runtime calculated with 450W resistive load with 4 x AlphaCell 100XTV at 25°C

**excluding batteries



Power



Alpha Traffic Mini Battery Backup System

STANDARD FEATURES		
<ul style="list-style-type: none"> • Integrated solution with uninterruptible power supply module, Universal Automatic Transfer Switch, document holder, battery cable kit and tamper switch • Two shelves for up to four AlphaCell™ 100XTV or two 195/220 GXL batteries • Can house optional Alpha Remote Battery Monitoring system • Mounting options include pole, wall, side or pedestal 		
MODEL	Traffic Mini 350 BBS	Traffic Mini 1000 BBS
Part Number	0170021-040	0170021-010
ELECTRICAL		
System Input Voltage (Vac)	120	
Input Current Rating (A)*	5.3	14
Input Frequency (Hz)	50/60 ±5% (Autosense)	
AVR Range (Vac)	88-152	85-169
System DC Voltage (Vdc)	24	48
Max Charge Current (A DC)	6	10
System Output Voltage (Vac)	120	
Output Power@ 50°C (Watts)	350	1000
Output Frequency (Hz)	= Input Frequency	
Output Voltage Regulation	±10% Line Mode ±2% Inverter Mode	
Output Waveform	Pure Sine Wave	
MECHANICAL		
Dimensions	in	34H x 16W x 12D
	mm	864H x 406W x 305D
Weight (without batteries)	65 lbs (29.5 kg)	55 lbs (25 kg)
Construction	Aluminum, 5052-H32 (High strength corrosion resistance)	
Finish	Natural Aluminum	
Cable Entrance	Bottom or Rear	
Mounting	Side mount, Optional - wall, pole or pedestal kit available	
Access	Removable bottom shelf for easy wiring access	
AC Input Connections AWG (mm ²)	Terminal blocks #14 to #6 AWG (2.08 to 13.3 mm ²)	
AC Output Connections AWG (mm ²)	Terminal blocks #14 to #6 AWG (2.08 to 13.3 mm ²)	
Dry Contact AWG (mm ²)	Terminal blocks #26 to #12 AWG (0.2 to 2.5 mm ²)	
COMMUNICATION INTERFACE		
Display	2 x 20 backlit alpha-numeric LCD	
Ports	USB-B: Local Communication RJ45: Remote Communication RJ11: Battery Temperature Compensation	RS232: Local Communication RJ45: Remote Communication RJ11: Battery Temperature Compensation
Indicators	Green & Red LED's Solid Green: Line Mode Flashing Green: Inverter Mode Flashing Red: Alarm Solid Red: Fault	
Dry Contact	2 x Programmable NO/NC (250Vac, 1A), 2 x user inputs	5 x Programmable NO/NC (250Vac, 1A), 1 x 48Vdc/500mA, 3 x user inputs, 1 x ATS


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Alpha Traffic Mini Battery Backup System

MODEL	Traffic Mini 350 BBS	Traffic Mini 1000 BBS
Part Number	0170021-040	0170021-010
ENVIRONMENTAL		
Temperature	Operating: -40 to 74°C (-4 to 165°F)** Storage: -40 to 75°C (-40 to 167°F)	
Relative Humidity	Up to 95%, non-condensing	
Altitude	Operating: Up to 2000m (6562ft) above sea level	
PERFORMANCE		
Typical Output Voltage THD	<3% (resistive load)	
Typical Efficiency ***	Line Mode > 96% Inverter Mode > 82%	Line Mode > 92% Inverter Mode > 82%
Load Crest Factor	3:1 (load dependent)	
AGENCY COMPLIANCE		
Electrical Safety	UL1778, CSA 22.2 No 107.3, UL 60950-1, CSA-C22.2 60950-1	
Marks		
EMC	CFR47, Part 15 Subpart B, Class A; CES-003 Class A	
NEMA	3R	
STANDARD SYSTEM CONFIGURATION		
0.125" Thick Natural Aluminum Enclosure 350 or 1000W UPS Module Universal Automatic Transfer Switch Battery Cable Kit - ¼" Ring Lug Document Holder Door Filter Tamper Switch ADD AlphaCell Batteries - 4 x 100 XTV (Mini 1000 BBS) or 2 x 220 GXL (Mini 350 BBS)		
OPTIONAL ACCESSORIES		
Remote Battery Monitoring System Battery Heater Mats Mounting Brackets - Pole or Wall Pedestal Mounting Kit		
*@ nominal input voltage and maximum battery charging current **Power module only. Output power derates above 50°C ***Efficiency is measured at an ambient temperature of 25°C, full resistive condition and nominal line and battery voltage		

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