

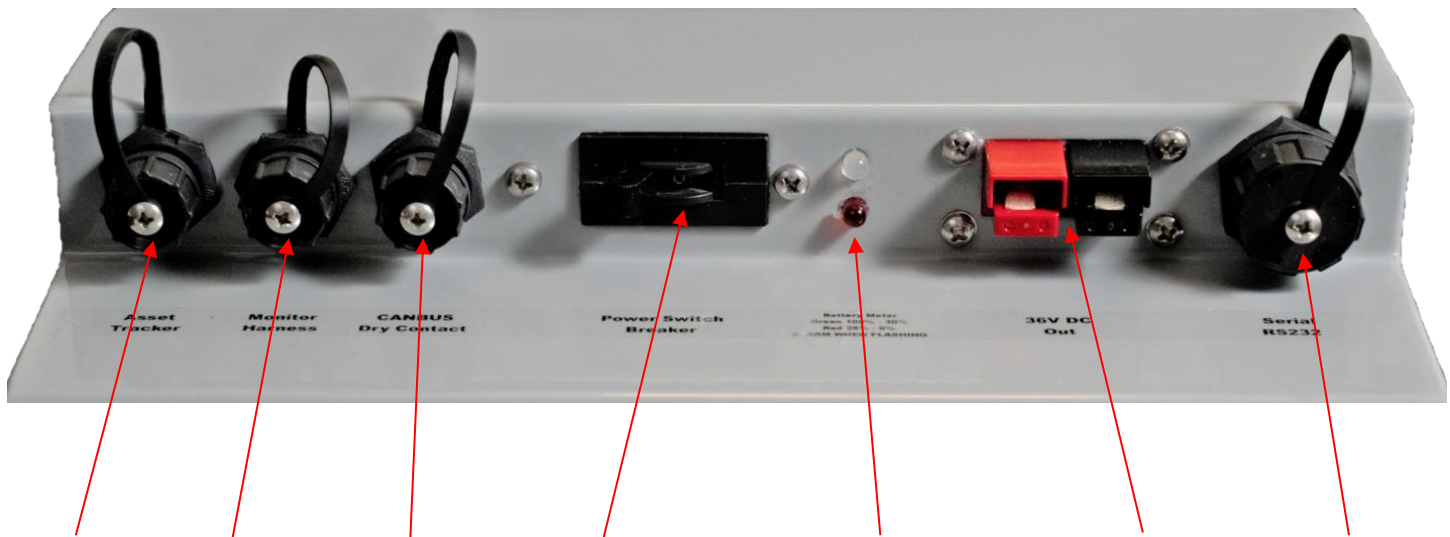
APSI-PS48LFP105AH

48 Volt Lithium LFP Battery for Traffic Signal

- Lithium Iron Phosphate (LiFePO4)
- Simplified field installation
- Long term reliability
- Communications available
- Shelf mountable
- Built in diagnostics
- Remote monitoring
- Self-protected
- Designed for harsh environment
- Remote Asset Tracking Optional*



High-quality power solution. The Lithium Iron Phosphate (LFP) architecture provides a highly scalable traffic power solution that will allow you to build and expand your network with an overall lower total cost of ownership. APSI Lithium Iron Phosphate battery systems deliver higher power and runtime with a smaller footprint. With integrated communications, the unit provides real time error detection, diagnostics with pack and cell level monitoring. Local connectivity available for technicians for rapid configuration and integration. Remote Monitoring as an optional accessory.*



-Optional Asset Monitoring interface port	- Battery Monitoring output for UPS power supplies with DOCSIS Transponders	-CANBUS -Alarm output	-DC Breaker -Powers down battery output and Battery Management System (BMS)	-Battery Level Meter -Green: 100-30% -Red: 29-0% -Alarm light flashing red when in alarm -Alarm codes accessible via BMS utility (Local Port or CANBUS)	-48V DC Battery output/input -Anderson™ PP75 connector	-BMS Serial RS232 on RJ45 connector -Local BMS interface port (Not for remote monitoring)
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Product

Product Number APSI-PS48LFP105AH

Pack Parameters

Battery Chemistry	LiFePO4	
Combination Method	16S1P	Prismatic cell type
Pack Amp Hours	105AH	5376 Wh
Nominal Voltage	51.2V	
Max Voltage	58.4V	
Min Voltage	35.2V	
Discharge Current	Standard ≤40A; Max ≤65A; Pulse <100A	
Charge Current	Standard ≤40A; Max ≤65A; Pulse <100A	
Working Temperature (discharge)	-4F to 140F -20C to 60C	Will operate with reduced capacity at temperatures extremes
Working Temperature (charge) <i>*Actual results may vary</i>	32F to 140F 0C to 60C	0C-10C: continuous 10A (max) charge 10C-60C: continuous 65A (max) charge

Pack Interface

Battery Monitor interface	6 pin	6 Pin connector for compatible DOCSIS transponders with cell monitoring (Optional harness available separately)
BMS Serial RS232 interface	RJ45	PC interface for diagnostics and configuration via BMS utility Software (PC cable available separately)
I/O interface	4 pin	(Optional cable available separately)
I/O CANBUS Low	Pin 1	No inline terminating resistor
I/O CANBUS High	Pin 2	No inline terminating resistor
I/O Alarm Contact	Pin 3	NO, open collector, 35VDC max, 60mA
I/O Alarm Contact	Pin 4	COM
Asset Monitor Interface	8 Pin connector for connectivity with our Asset Monitor (Optional accessory available separately) Reads various information from the battery such as SOC, alarms, plus GPS coordinates of the asset. The data is transmitted over wireless communication and accessible through internet dashboard.	

Physical

Battery dimension (D*W*H)	12.5 x 13.35 x 9.75 In. (31.8 x 34.0 x 24.8 Cm.)
Battery Weight	78 lb. (35Kg)
Battery size	Comparable to 2 Group 31 Batteries
Typical Configuration	2 side by side in the same footprint of 4 Group 31 batteries for double runtime
Ingress Protection	IP2X
Warranty	Limited warranty on lithium cells and electronics
Certifications	UN38.3, UL1642