

EP 650

010-034-11



Product Description

The EP 650 is a Line-Interactive uninterruptible power supply (UPS) with an output capacity of 650W. The EP provides filtered and regulated AC output power of proper voltage to operate traffic signals, conflict monitors, camera equipment, lighting, and additional applications used in Departments of Transportation and Intelligent Traffic Systems (DOT/ITS). Built-in intelligence provides continuous operation during brownout and voltage spike with Automatic Voltage Regulation. A heavy duty battery charger and robust inverter provide backup power and recharging when line voltage is present. Status monitoring capabilities are provided through the LCD display, serial interface, and optional Ethernet network card for remote monitoring.

Features & Benefits

- 120VAC/60Hz input/output
- High efficiency for economical line operation and longer run time from battery input
- Pure Sine Wave output
- Liquid Crystal Display (LCD) for local diagnostics and configuration
- Input power factor, typically 0.9 or better (line mode)
- Temperature compensated battery charger with battery temperature sensor
- Robust rectifier/charger and inverter circuits
- PWM controlled forced-air cooling
- Compliant UPS product per IEC Standard 60950-1, UL1778, and FCC Part B
- Complies with EMI/RFI limits of Standards EN 55022 and EN 55024

Specifications



General	
Parameter	Specification
Dimensions:	5.25H x 15.6W x 8.8D
Weight:	26 lbs.
Mounting:	Shelf Rack
Temperature Range:	-34°C (-29°F) to +74°C (165°F)
Humidity:	Up to 95%
Safety Standards:	UL1778:2014 Ed. 5 CSA 22.2#107.3:2014 Ed.3 RoHS Compliant NEMA TS-2-2016v03.07 FCC CFR 47:2017 Part 15, Subpart B, Class A Radio Frequency Devices

Input	
Parameter	Specification
AC Circuit Breaker:	15 Amps
DC Circuit Breaker:	50 Amps
Connection:	Hard wired to terminal blocks
Phase:	Single phase 3-wire
Voltage:	120VAC Nominal
Frequency	60Hz ±5%

Specifications







Output	
Parameter	Specification
Connection:	Hard wired to terminal blocks
Phases:	Single phase 3-wire
Output Capacity:	650W
Voltage:	120VAC
Current Capacity:	5.4A
Rated Frequency:	60Hz
Frequency Regulation:	60Hz \pm 1%
Voltage Waveform:	Sine wave
Distortion Factor:	Linear load: 3% or less 100% rectifier load: 7% or less
Response Time:	8mS or less
Load Power Factor:	0.7

Battery System	
Parameter	Specification
Connection:	Anderson SB50
Voltage:	24VDC
Charger Capacity:	10A
Temperature:	Default: -5.0mV/°C/Cell

Dry Contact Relays	
Parameter	Specification
Switching:	60 watts, 62.5VA

*Specifications subject to change

Accessories		
Products	Description	Stock ID
	3 Battery, 36V External Battery Balance Manager (BBM Plus)	018-008-20
	4 Battery, 48V External Battery Balance Manager (BBM Plus)	018-009-20
	48V Battery Harness	870-230-10
	538-531-10	538-531-10



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