MYERS
EMERGENCY POWER SYSTEMS

Centralized Inverters for Emergency Lighting

Illuminator Series E & IE

THE ILLUMINATOR SERIES E & IE

Myers Emergency Power Systems (EPS) has a long history of engineering and manufacturing the highest quality and most reliable backup power solutions in the industry. Myers EPS centralized inverters provide emergency power to lighting, illuminating the path to egress during critical outages.

Illuminator Series E

The Illuminator Series E is an uninterruptible lighting inverter. It transfers to inverter mode (battery power) when utility power is interrupted for less than 2ms. The line interactive design eliminates excessive transfers to battery power. The Series E is designed for all lighting loads including LED, Fluorescent, Incandescent, Quartz, and HID.

Illuminator Series IE

The Illuminator Series IE is an interruptible lighting inverter. It transfers to inverter mode (battery power) when utility power is interrupted for more than one line cycle. This series is capable of supporting full normally off loads. The Series IE is designed for Fluorescent, Quartz, LED and Incandescent normally on and/or normally off lighting loads and applications that require large normally off (emergency only) lighting loads.

APPLICATIONS

- 911 Facilities
- Airports
- Apartment / Condominium Complexes
- Assisted Living Centers & Nursing Homes
- Banks & Financial Institutions
- Casinos
- Government Buildings & Data Centers
- Grocery Stores / Home Center Stores
- Hospitals
- Hotels / Motels
- Industrial & Commercial Spaces
- Medical & Other Office Buildings
- Military Complexes
- Theaters
- Parking Garages
- Prisons
- Race Tracks
- Transit Stations
- Religious Facilities
- Restaurants
- Retail Department Stores & Malls
- Schools, Colleges & Day Care Centers
- Sports Facilities
- Storm Shelters
- Toll Booths, Tunnels & Bridges
- Many More

SYSTEM DISPLAY FUNCTIONS

Meter Functions

- AC Voltage Input
- AC Voltage Output
- AC Current Output
- Battery Voltage
- System Days
- Battery Current
- VA Output
- Inverter Watts
- Ambient Temperature
- Inverter Minutes

Program Functions

- Date
- Time
- Month Test Date / Time
- Yearly Test Date / Time
- Load Fault Reduction Setting
- Low Battery Alarm
- Near Low Battery Alarm
- Low AC Voltage Alarm
- High AC Voltage Alarm
- Ambient Temperature Alarm

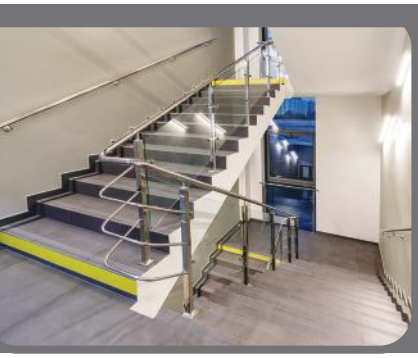
Control Functions

- Test Log & Event Log
  - 75 Logs Stored
  - Date, Time, Duration
  - Output Voltage
  - Output Current
  - Ambient Temperature
  - Alarms Preset
- Alarm Log
  - 75 Logs Stored
  - Date, Time, Alarm Type
  - Test
  - Buzzer On / Off

AVAILABLE OPTIONS

- ☑ **BACnet (MS/TP)**
- ☑ **BACnet (TCP/IP)**
- ☑ **Battery Temperature Monitor (BTM) with Shunt Trip DC Breakers**
- ☑ **Breaker Locks**
- ☑ **Output Breakers**
- ☑ **Status Monitoring Contacts**
- ☑ **Drip Top**
- ☑ **External Maintenance Bypass Switch (Make-Before-Break)**
- ☑ **Fast Charge**
- ☑ **Premium 20-Year Prorated Warranty Batteries**
- ☑ **Internal Maintenance Bypass (Break-Before-Make)**
- ☑ **Internal Maintenance Bypass (Make-Before-Break)**
- ☑ **Inverter On / On Utility / On Battery Dry Contacts (Form C)**
- ☑ **IoT Inverter Connect Cloud Monitoring Platform**
- ☑ **Load Control Interface Overrides Dimmer or Switch**
- ☑ **Modbus (TCP/IP)**
- ☑ **Modbus (RTU)**
- ☑ **OSHPD Rated Systems**
- ☑ **Normally Off Output***
- ☑ **Output Transfer Delay to Emergency (Factory Set at 3 seconds; Adjustable 1 to 8 seconds)**
- ☑ **Remote Status Panel (Status Alarm / Alarm Silence Switch)**
- ☑ **Remote Meter Panel**
- ☑ **Remote Summary Alarm Panel**
- ☑ **Summary Dry Contacts (Form C)**
- ☑ **Inverter On/ On Utility On Battery Dry Contacts (Form C)**
- ☑ **Serial to Ethernet Adapter**
- ☑ **Output Breaker Trip Alarm**
- ☑ **Variable Time Delay of Inverter Retransfer from Battery (0 - 15 minutes); Requires Normally Off Breakers**
- ☑ **Spare Fuses & Circuit Boards Available**
- ☑ **Seismic Mounting**
- ☑ **Zone Monitoring (Quantity Must Be Specified)**

* Rating not to exceed 20% of unit VA rating with HID or Normally OFF loads must be stagger-started.



SPECIFICATIONS

	ILLUMINATOR E / IE SERIES POWER RATING	1.5kVA	2.25kVA	3.0kVA	3.75kVA	5.0kVA	6.0kVA	8.0kVA	10.0kVA	12.5kVA	16.7kVA
	DIMENSIONS	H: 47" W: 30" D: 25"					H: 76" W: 48" D: 25"				
	WEIGHT	511 lbs	674 lbs	827 lbs	980 lbs	1168 lbs	1715 lbs	2120 lbs	2561 lbs	3025 lbs	3845 lbs
INPUT	INPUT VOLTAGE	120VAC or 277VAC. 1-Phase 2-wire +10% -20% on Series E. 1-Phase 2-wire +10% -15% on Series IE. Contact factory for all other voltages.									
	INPUT POWER WALK-IN	Walk-in limiting inrush current to less than 125% of full rated load, 10 times 1 line cycle for incandescent loads									
	INPUT FREQUENCY	60Hz, +/- 3%									
	SYNCHRONIZING SLEW RATE	1Hz per second nominal									
	PROTECTION	Input circuit breaker									
	HARMONIC DISTORTION - VOLTAGE	< 10% THD									
	SYSTEM SHORT CIRCUIT	65 KAIC									
OUTPUT	OUTPUT VOLTAGE	120VAC or 277VAC 1-phase 2-wire. Contact factory for all other voltages.									
	STATIC VOLTAGE	Load current change +/- 2%, battery discharge +/- 12.5%									
	DYNAMIC VOLTAGE	+/- 2% for a +/- 25% load step change, +/- 3% for a 50% load step change, recovery within 3 cycles									
	HARMONIC DISTORTION - VOLTAGE	<3% THD for linear load									
	OVERLOAD	Fuse protected									
	OUTPUT FREQUENCY	60Hz +/- .05Hz During emergency mode									
	LOAD POWER FACTOR	.5 Lag to .5 lead									
	INVERTER OVERLOAD	280% for 12 line cycles, 115% for 10 minutes									
	PROTECTION	Optional distribution circuit breaker(s)									
	CREST FACTOR	2.8									
BATTERY	BATTERY TYPE	Standard: Valve-regulated sealed lead-calcium									
	CHARGER	Microprocessor controlled for various battery types and temperature compensating. (Recharge per UL-924 specifications)									
	PROTECTION	Automatic low-battery disconnect; Automatic restart upon utility return									
	DISCONNECT	Fuse									
	RUN TIMES	90 minute run time standard; Extended run times available. Contact factory for additional information.									
ENVIRONMENTAL	ALTITUDE	< 10,000 feet (above sea level) without derating									
	OPERATING TEMPERATURE	Inverter: 32° to 104°F (0° to -40°C); Battery: 68° to 86°F (20° to 30°C) per UL-924									
	STORAGE TEMPERATURE	-4° to 158°F (-20° to 70°C) (Electronics only)									
	RELATIVE HUMIDITY	< 95% (Non-condensing)									
GENERAL	DESIGN	Line interactive PWM inverter type utilizing IGBT technology with 2ms transfer time on Series E & 50ms on Series IE; 98% efficiency									
	GENERATOR INPUT	Compatible with generators (50kVA or larger)									
	CONTROL PANEL	Microprocessor controlled 4 x 20-character vacuum fluorescent display with touch pad controls / functions & scrolling system status									
	METERING	Input & output voltage, battery voltage, battery & output current, output VA, temperature, inverter wattage									
	ALARMS	High / low battery charger fault, near low battery, low battery, load temperature, inverter fault, output fault, optional circuit breaker trip									
	COMMUNICATIONS	RS-232 port (DB9); Optional e-mail /modem, SNMP									
	MANUAL MAINTENANCE BYPASS	Internal optional; External optional without internal distribution breakers									
	ALARM CONTACTS	Optional summary form "C" contacts, Inverter On Contact (IOC) and/or status monitoring contacts									
	WARRANTY	Electronics: 1 year standard warranty includes all parts, labor & travel expenses within 48 contiguous states; Battery: 1 year full / 9 years prorated (Optional extended warranties, start up and service plans available)									
PHYSICAL	CABINET	Freestanding NEMA Type 1; red powder coat paint									
	COOLING	Forced air, during emergency and high charge modes									
	CABLE ENTRY	Top and Sides (1.5kVA to 5kVA)					Sides Only (6.0kVA to 16.7kVA)				
	ACCESS	Front									

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Specifications and dimensions are subject to change without notice.
Please contact your local Myers EPS representative for the most up-to-date information and product application support.