



Centralized Inverters for Emergency Lighting

Illuminator Series CIII

THE ILLUMINATOR SERIES CIII

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 safety during critical outages.

Reliable Performance

The Illuminator Series CIII is the third generation of IGBT-based inverter technology and is compatible with any type of lighting load including incandescent, fluorescent, HID, quartz, LED, or halogen. It features a rock solid design with 2x ratings of all critical components and will work with lighting loads at cold starts for all normally off circuits or regular normally on circuits. The LVD disconnect for long power outages eliminates battery drain. Additionally, the Illuminator Series CIII eliminates the maintenance costs of individual testing of unit equipment and battery powered ballasts. All tests and diagnostics are performed and recorded automatically.

Approvals

UL listed to UL924, Emergency Lighting and Power Equipment, meets and exceeds the requirements for emergency lighting and power, NFPA70, NFPA101, NFPA111, UBC. and N.Y. City approval #45228.



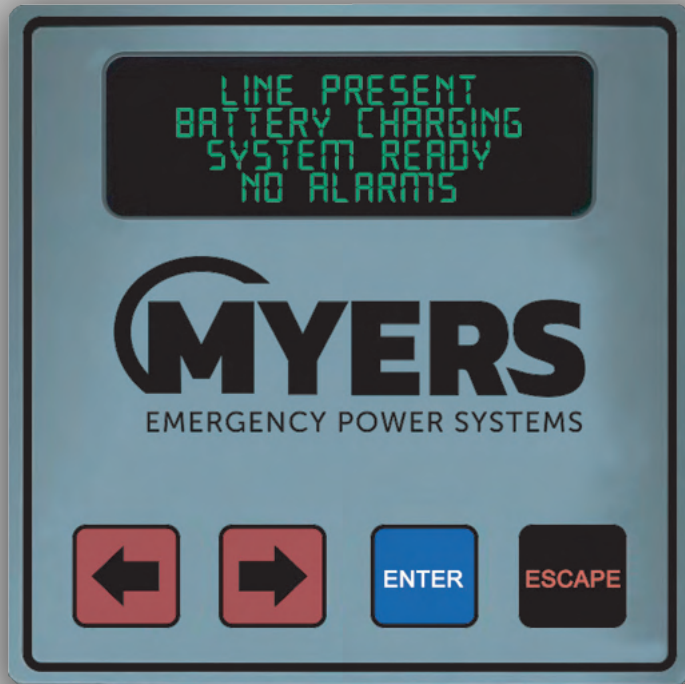
APPLICATIONS



- 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 (MSTP)
- ✓ BACnet TCP/IP
- ✓ IoT Inverter Cloud Connect
- ✓ Modbus RTU
- ✓ Modbus TCP/IP
- ✓ Remote Summary Alarm Panel
- ✓ Battery Temperature Monitor
- ✓ Breaker Locks
- ✓ Status Monitoring Dry Form C Contacts
- ✓ Drip Top (1 per cabinet when required)
- ✓ External Maintenance Bypass (Make-Before-Break)
- ✓ Fast Charge
- ✓ Inverter On Dry Form C Contacts

- ✓ Internal Maintenance Bypass (Make-Before-Break or Break-Before-Make)
- ✓ Output Transfer Delay (3 Seconds)
- ✓ Remote Status Panel
- ✓ Remote Meter Panel
- ✓ Summary Dry Form C Contacts
- ✓ Serial to RJ45 Ethernet Adapter
- ✓ Spare Fuses & Circuit Boards
- ✓ Output Trip (Supervised) Alarm
- ✓ Time Delay 15 Minutes
- ✓ Zone Monitoring
- ✓ Premium 20-Year Prorated Warranty Batteries
- ✓ OSHPD Rated System Available - Contact Factory

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



SPECIFICATIONS

| ILLUMINATOR CIII SERIES POWER RATING | | 4.8kVA | 6.0kVA | 8.0kVA | 10.0kVA | 12.5kVA | 16.7kVA | 24.0kVA | 33.0kVA | 40.0kVA | 50.0kVA |
|--------------------------------------|-------------------------------|---|-----------|-----------|-----------|-----------|-----------|--|-----------|------------|------------|
| DIMENSIONS | | H: 47" W: 30" D: 25" (Same Dimensions for Battery Cabinet) | | | | | | H: 72" W: 44" D: 31" (Same Dimensions for Battery Cabinet) | | | |
| WEIGHT | | 1,633 lbs | 1,855 lbs | 2,247 lbs | 2,647 lbs | 3,279 lbs | 4,063 lbs | 6,390 lbs | 8,630 lbs | 10,150 lbs | 11,980 lbs |
| INPUT | INPUT VOLTAGE | 120/208VAC or 277/480VAC. 3-Phase 4-wire +10% -20% (Wye configuration) (Contact factory for other voltages.) | | | | | | | | | |
| | INPUT POWER WALK-IN | Limiting inrush current to less than 125%, 10 times for 1 line cycle | | | | | | | | | |
| | 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 | 120/208VAC or 277/480VAC 3-phase 4-wire. (Wye or Delta configuration) (Contact factory for other voltages.) | | | | | | | | | |
| | STATIC VOLTAGE | Load current change +/- 4%, battery discharge +/- 4% | | | | | | | | | |
| | DYNAMIC VOLTAGE | +/- 3% For a +/- 25% load step change, +/- 6% 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; Contact factory for other battery types. | | | | | | | | | |
| | 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 (4.8kVA to 16.7kVA) | | | | | | Fuse / circuit breaker (24.0kVA and above) | | | |
| | RUN TIMES | 90 Minutes 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 | Standby UPS, PWM inverter type utilizing IGBT technology with 2ms transfer time; 98% efficiency | | | | | | | | | |
| | GENERATOR INPUT | Compatible with generators (50kVA or larger) | | | | | | | | | |
| | CONTROL PANEL | Microprocessor controlled 2 x 20-character vacuum fluorescent display with touch pad controls / functions, 5 LED indicators & alarm | | | | | | | | | |
| | 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: BACnet MSTP, BACnet IP, Serial to Ethernet Adapter, IoT Inverter Connect Cloud Software, MODBUS TCP/IP, MODBUS RTU | | | | | | | | | |
| | MANUAL MAINTENANCE BYPASS | Internal standard; 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 mode. Convection cooled during normal operation. No filters required. | | | | | | | | | |
| | CABLE ENTRY | Top, sides & bottom | | | | | | | | | |
| | ACCESS | Front | | | | | | | | | |



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.

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