

# ILLUMINATOR DR

## Outdoor-Rated Emergency Lighting Inverter System



## THREE PHASE SYSTEMS 4kVA/kW to 10kVA/kW Designed with Industry Leading Compact Footprint

The DR outdoor-rated cabinet facilitates installation in remote locations and where space is not available indoors.

Based upon more than 30 years of engineering and manufacturing expertise, the DR Series combines all of the features that deliver reliability, versatility and ease of operation & maintenance with the latest technology to create an industry-leading solution.



### STANDARD FEATURES

- UL 924 Listed for Operating Temperatures 10° to 40°C (50° to 104°F)
- NEMA 3R Enclosure with Extra Variable Speed Temperature Controlled Fans for Forced Air Cooling
- White, Exterior Grade, Baked Powder Coat Painted Steel Enclosure
- Conformal Coat all Printed Circuit Boards
- Maintenance Bypass (Internal) - Make Before Break
- Summary Dry Form C Contacts
- Seismic Bracing
- CORBIN - Corbin CAT60 Locks; 3-Point Lock

### OPTIONAL FEATURES

- Enhanced Communications
  - Expanded Building Management Protocols
  - BACnet or Modbus Communications Interface
  - NEW IoT Connect Cloud Software
- Remote NEMA 1 Panels
- Output Circuit Breakers
- Extended Factory Warranty
- Factory Startup and Training
- Normally Off Output
- Output Trip Alarms
- Stainless Steel Cabinet
- Microprocessor-Controlled Convection Heater

### SPECIFICATIONS

- Output Load Power Factor .5 Lag to .5 Lead
- Electronic and Magnetic Ballast Compatible
- Output Distortion Less Than 3% THD for Linear Loads
- Generator Compatibility
- 90 Minute Runtime Standard
- Compatible with Electronic and Magnetic Ballasts and LED Drivers
- Custom Voltages Available
- Output Load Power Factor .5 Lead to .5 Lag
- Temperature Controlled Forced Air Cooling, No Filters Required

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## Outdoor-Rated Emergency Lighting Inverter Three Phase Systems 4kVA/kW to 10kVA/kW



### ORDERING GUIDE

EXAMPLE MODEL # 8-DR-4-S-BA2007-F-T-2YW

|   |   |  |   |  |   |
|---|---|--|---|--|---|
| <b>VOLTAGE INPUT/OUTPUT</b> <sup>1</sup><br>8 - 120/208 - 120/208<br>9 - 277/480 - 277/480<br>Z - Other Voltages <sup>3</sup><br>(May Require UL Testing) | <b>SYSTEM TYPE</b><br>DR - Illuminator CR | <b>KVA / KW</b> <sup>2</sup><br>4 - 4.0<br>5 - 5.0<br>6 - 6.5<br>7 - 8.0<br>8 - 10.0 | <b>BATTERY TYPE</b><br>S - Standard (VRLA)<br>G - Long Life (10-YR) | <b>OUTPUT BREAKERS</b> <sup>5, 6</sup><br>EXAMPLE<br>B A 20 07<br>OUTPUT<br>B - Normally On<br>N - Normally Off <sup>5</sup><br>VOLTAGE, POLE<br>A - 120, 1-Pole<br>B - 208, 2-Pole<br>C - 240, 2-Pole<br>D - 277, 1-Pole<br>E - 120/208, 3-Pole<br>F (SB) - 277/480, 3-Pole<br>G - 480, 2-Pole<br>Z - Other (Contact Factory) | <b>OPTIONS</b><br>A - Remote Summary Alarm Panel With One Indicator Light (Not Available With "C" Option) <sup>4</sup><br>C - Status Monitoring Dry Form C Contacts<br>F - Fast Charge (12-hr)<br>H - Heater (Battery)<br>I - Inverter on Dry Form C Contact<br>O - Output Transfer Delay (Factory Set at 3 Seconds, Adjustable .5 to 8 Seconds)<br>P - Remote Status Panel (Status Alarm/Alarm Silence Switch) (Requires C Option) <sup>4</sup><br>R - Remote Meter Panel <sup>4</sup><br>SS - Stainless Steel Enclosure<br>S - Summary Fault Dry Form C Contacts<br>T - Output Trip (Supervised) Alarm <sup>5</sup><br><br><b>PICK ONLY 1:</b><br>BAC - BACnet<br>BIP - BACnet IP<br>IOT - IoT Inverter Connect Cloud Communications<br>MIP - Modbus TCP/IP<br>MOD - Modbus RTU<br>SEA - Serial to Ethernet Adapter |
|   |   |  |   | <b>QUANTITY</b> <sup>6</sup><br>01-14<br>AMP RATING <sup>6</sup><br>(Distribution Breakers)<br>10, 16, 20, 25,<br>32, 40, 50, 63   |   |

☐ = Required feature for part number.  
☐ = Optional feature. Not required for part number.

ACCESSORIES  
EMBP-K - External Maintenance Bypass Switch with Key Locked Enclosure<sup>A</sup>  
SPARES - Spare Fuses & Circuit Boards  
SPAREF - Spare Fuses  
  
A) External Maintenance Bypass Switch is not available with Internal Distribution Breakers.

- Only single phase voltages available.
- KVA= KW
- May require external NEMA 3R Transformer Cabinet. Consult factory.
- NEMA 1 enclosure
- Normally off load systems cannot exceed 20% of total kVA rating with any combination of HID loads.
- Maximum output breakers available: 14 unsupervised (1-pole), 8 supervised (1-pole). A 2-pole breaker occupies 2 positions, and a 3-pole breaker occupies 3 positions. Breakers provided are 20 Amps unless specified otherwise.  
List all breaker requirements separately -- ex: BA2007-NA1001.
- One-year warranty is standard.

### WARRANTY & ONSITE SERVICES<sup>7</sup>

- 2YW** - Start Up & Same Day Training  
(Increases Standard 1 Year Electronics Warranty to 2 years)
- 2YWT** - Start Up, Same Day Training and Full Run Test  
(Increases Standard 1 Year Electronics Warranty to 2 years)
- 5YP** - 5-Year Maintenance Plan
- 5YW** - 5-Year Extended Electronics Warranty  
(Includes 3 Years of Extended Electronics Warranty When Combined With 2YW)
- TR** - Training (if Required on Day Other Than Start Up)

### DIMENSIONS

| Electronics Module   |                         |                                   |                          |                 |                    |                  |                 |              | Batteries 90 Minutes @ Full Load |                     |               |                | Total System    |  |              |
|----------------------|-------------------------|-----------------------------------|--------------------------|-----------------|--------------------|------------------|-----------------|--------------|----------------------------------|---------------------|---------------|----------------|-----------------|--|--------------|
| Partial Model Number | Power Rating (KVA / KW) | Efficiency at Full Load (Typical) | Audible Noise (dBA @ 1m) | Heat Loss (BTU) | Cabinet Dimensions |                  |                 |              | Total Battery Weight (lbs)       | Number of Batteries | Voltage (VDC) | Current (Amps) | Run Time (Mins) | Dimensions W <sup>9</sup> X H X D (in) | Weight (lbs) |
|                      |                         |                                   |                          |                 | Width (in / cm)    | Height (in / cm) | Depth (in / cm) | Weight (lbs) |                                  |                     |               |                |                 |  |              |
| DR-4                 | 4.0                     | 98                                | 45                       | 326             | 54 / 137           | 76 / 193         | 30 / 76         | 995          | 888                              | 12                  | 144           | 31             | 90              | 54 x 76 x 30                           | 1883         |
| DR-5                 | 5.0                     | 98                                | 45                       | 408             | 54 / 137           | 76 / 193         | 30 / 76         | 995          | 1110                             | 15                  | 180           | 31             | 90              | 54 x 76 x 30                           | 2105         |
| DR-6                 | 6.5                     | 98                                | 45                       | 544             | 54 / 137           | 76 / 193         | 30 / 76         | 995          | 1480                             | 20                  | 240           | 31             | 90              | 54 x 76 x 30                           | 2475         |
| DR-7                 | 8.0                     | 98                                | 45                       | 680             | 54 / 137           | 76 / 193         | 30 / 76         | 1099         | 1776                             | 24                  | 144           | 65             | 90              | 54 x 76 x 30                           | 2875         |
| DR-8                 | 10.0                    | 98                                | 45                       | 680             | 54 / 137           | 76 / 193         | 30 / 76         | 1099         | 1776                             | 24                  | 144           | 81             | 90              | 54 x 76 x 30                           | 2875         |