FIREHORSE
FULHAM

IP20

# 25W & 50W Micro-Inverters/Emergency Power Supplies


***Fulham FireHorse Micro-Inverters / Emergency Power Supplies deliver power to any fixture (of any lighting technology type) in emergency mode for 90 mins – at either 25W or 50W, depending on the model chosen. The uniqueness and differentiability of these products stem from their ability to run a fixture(s) greater than 25W or 50W, respectively, which previously required higher cost, higher wattage inverters.***

***The FHUPS1-UNV-25L-SD (25W) or FHUPS1-UNV-50L-SD (50W) also save money by reducing SKUs needed for emergency fixtures, because they can support one fixture or multiple fixtures whose system wattage adds up to 150W (25W micro-inverter) or 320W (50W micro-inverter) in normal operation.***

- Cost reduction: Eliminates needed for a higher wattage, more costly inverter and reduces SKUs required for Emergency capability in fixtures
- Quick installation: No need to open up a luminaire to connect to the driver
- Dims luminaires either up to 150W down to 25W, or up to 320W down to 50W in emergency mode with 0-10V dimming; 25W or 50W max, respectively, without 0-10V dimming
- Under voltage, short circuit and overload protections
- Common applications include offices, retail outlets and warehouses

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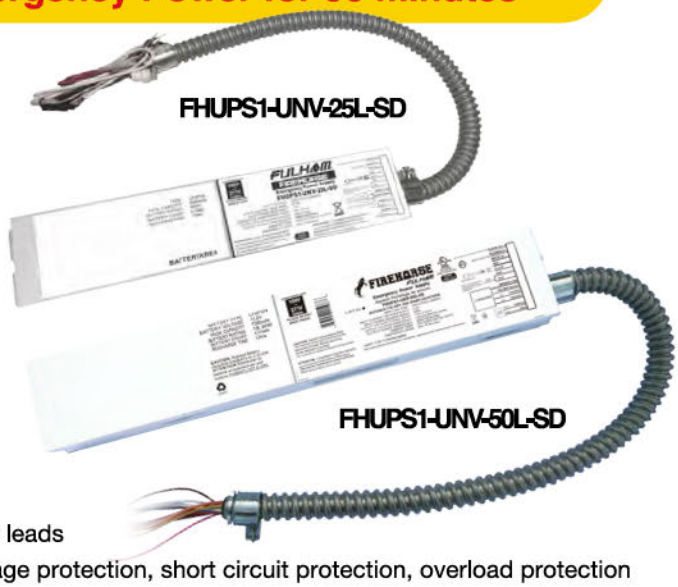
# 25W & 50W Micro-Inverters / Emergency Power Supplies

IP20

**Works with any fixture ≤150W for 25W (25W micro-inverter) or ≤320W for 50W (50W micro-inverter) of Constant Emergency Power for 90 minutes**




Fulham's innovative Micro-Inverters offer the ability to power any fixture in emergency mode at 25W or 50W, respectively, for a period of 90 mins.

Their uniqueness stems from their ability to run a fixture(s) GREATER than 25W or 50W by using built-in 0-10V dimming wires. For example, the 25W unit will scale down the power of a 150W fixture to 25W in Emergency Mode (and the 50W will scale down 320W to 50W), allowing customers to use these inverters in high output applications where previously a more costly inverter was the only solution.

The FHUPS1-UNV-25L-SD can support one luminaire rated for 150W or multiple fixtures whose system wattage adds up to 150W in normal operation (although anything greater exceeds the input power rating of the unit.) Similarly, the FHUPS1-UNV-50L-SD is rated for one luminaire of 320W or multiple fixtures up to 320W in normal operation. This reduces the number of SKUs needed for emergency fixtures, to save money.

- Uninterrupted Power Supply
- Universal Input
- UL listed, CEC Title 20 Compliant, IP20
- 120-277 VAC output for 25W; 120/220/277 for 50W
- 25W micro-inverter dims luminaires of up to 150W down to 25W(45VA) in emergency with 0-10V dimming; 25W(45VA) max without 0-10V dimming
- 50W micro-inverter dims luminaires of up to 320W down to 50W(100VA) in emergency with 0-10V dimming; 50W(100VA) max without 0-10V dimming
- 12 hour recharge time
- 0 – 50°C ambient rated
- Conduit for leads
- Under voltage protection, short circuit protection, overload protection
- Easy installation time: no need to open up a luminaire to connect this device to the driver
- Can be used with luminaires where the driver is not accessible, e.g. UFO high bays
- Saves money: higher wattage fixtures previously required a higher wattage/higher cost inverter
- Self Diagnostic standard
- RJ11 port allows Bluetooth compatibility
- 50W micro-inverter has I2C ability to interconnect with control systems for remote monitoring

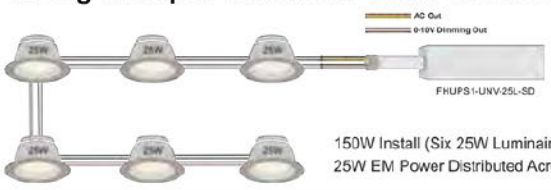
## Specifications (FHUPS1-UNV-25L-SD / FHUPS1-UNV-50L-SD)

| | | | |
|---|---|---|---|
| **Operating Voltage Normal Mode** | 100V - 277V | **Min. Emergency Operation** | 90 Mins. |
| **Operating Voltage Emergency Mode** | 120V - 277V / 120/220/277V | **Min. Required Charging Time** | 12 Hours |
| **Frequency** | 50/60Hz / 60Hz | **Battery Type** | LiFePo4 / $LiFeO_4$ |
| **Input Current** | 0.12A / 0.21A | **Pack Capacity** | 3600mAh / 7200mAh |
| **Input Power** | 11W / 22W | **Battery Rating** | 69Wh / 138Wh |
| **Output Power Emergency** | 25W (45VA) Max / 50W (100VA) Max | **Battery Count** | 6 Cells / 12 Cells |

## 25W

### Wiring one luminaire without 0-10V dimming


### Wiring multiple luminaires with 0-10V dimming



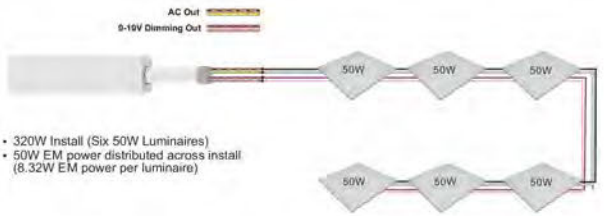

150W Install (Six 25W Luminaires)
25W EM Power Distributed Across Install

## 50W

### Wiring one luminaire without 0-10V dimming


### Wiring multiple luminaires without 0-10V dimming


### Wiring multiple luminaires with 0-10V dimming




- 320W Install (Six 50W Luminaires)
- 50W EM power distributed across install (8.32W EM power per luminaire)

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