

**DC12-48-60-0-25E**

Overvoltage Protection and Power Management Junction Box

## Base Protection - Outdoor

The DC12-48-60-0-25E is designed to be the most robust lightning and power surge protector available for distributed node B or e-node B applications. The flexible design provides electrical protection/cable management at the rooftop or base of sites. The solution employs the patented Strikesorb® 30-V1-HV surge protective device (SPD), capable of providing 60kA (8/20  $\mu$ s) of surge capacity for up to 12 -48V DC circuits.

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**Strikesorb®**

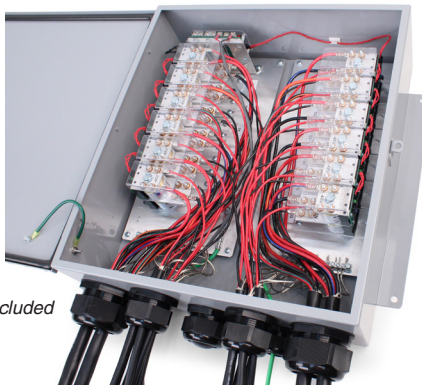
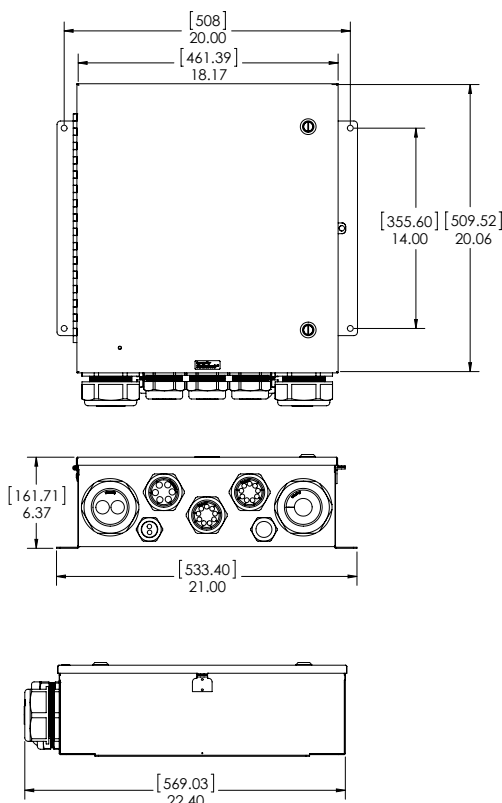
DC12-48-60-0-25E  
ships with Conduit Fittings installed

**Features**

- Provides protection for 12 individual -48V DC circuits at the base of sites
- Surge protection of 60kA 8/20  $\mu$ s
- Maximum impulse current 5kA 10/350  $\mu$ s
- Simplifies inter-connectivity and cable management for DC conductors
- UL 1449 5th Edition Type 2 protective device
- IEC 61643-11 Class I protection for DC applications
- Form C relay contacts included, allowing remote monitoring of suppressor status
- Supports 12 AWG, 10AWG or 8AWG DC Jumpers
- Patent pending

**Benefits**

- Strikesorb modules are fully recognized to UL 1449 5th Edition, and IEC 61643-11 Safety Standards, meeting all intermediate and high current fault requirements to facilitate use in original equipment manufacturers (OEM) applications
- Strikesorb offers unique maintenance-free protection against direct lightning currents
- NEMA 4 enclosure allows for indoor or outdoor installation



Cable Gland kit included

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## SPECIFICATIONS

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**Strikesorb®**

# DC Surge Protection Solutions for Base Station - Outdoor Rated **DC12-48-60-0-25E** Overvoltage Protection and Power Management Junction Box

### Electrical

Model Number	DC12-48-60-0-25E
CEQ / ANT Number	CEQ. 12659
Number of Circuits Protected	12
Surge Protective Device (SPD) Type per UL 1449 5th Edition	Type 2
Surge Protection Class as per IEC 61643-11	Class I
Nominal Operating DC Voltage [U <sub>n</sub> ]	48 V
Nominal Discharge Current [I <sub>n</sub> ] per UL 1449 3rd Edition	20 kA 8/20 μs
Maximum Surge Current [I <sub>max</sub> ] per IEC 61643-11	60 kA 8/20 μs
Maximum Impulse (Lightning) Current [I <sub>imp</sub> ] per IEC 61643-11	5 kA 10/350 μs
Maximum Continuous Operating DC Voltage [U <sub>c</sub> ] (MCOV)	75 VDC
Voltage Protection Level [U <sub>p</sub> ] per IEC 61643-11	300 V
Voltage Protection Rating (VPR)	700 V
Suppression Technology	MOV
Strikesorb Module Type 2CA (UL 1449 5th edition)	30-V1-HV
Protection Modes:	Normal Mode -48V to Return
	Common Mode Return to Ground

### Mechanical

Connection Terminal (Alarm) Method	Form C Hardwired, #22 to #12 AWG [0.34 to 4 mm <sup>2</sup> ]
Connection Terminal (Suppression) Method	Compression lug 2 hole, #10, 5/8 pitch, 12-4 AWG [3.31-21 mm <sup>2</sup> ]
Connection Terminal (Terminal Block) Method	Copper #14 to #2 AWG [2.5 to 35 mm <sup>2</sup> ]
	Aluminum #12 to #2 AWG [4 to 35 mm <sup>2</sup> ]
Environmental Ingress Protection (IP) Rating	IP 68
Operating Temperature (°C)	-40° C to +100° C
Storage Temperature (°C)	-70° C to +80° C
Cold Temperature Cycling IEC 61300-2-22	-30° C to +60° C 200 hrs @5 PSI
Resistance to Aggressive Materials CEI IEC 61073-2	Including Acids and Bases
UV Protection ISO 4892-2 Method A	Xenon-Arc 2160 hrs
Enclosure Type	Outdoor - NEMA 4 Rated
Enclosure Dimensions (L x W x H)	18.17" x 20.06" x 6.37" [461.39 x 509.52 x 161.71 mm]
Weight	56.3 lbs [25.54 kg]
Combined Wind Loading	Sustained 135.3 lbs [602 N]
	Gust 228.6 lbs [1016 N]

### Optional Product Configurations

Conduit Fittings	3- 2" Conduit Fittings, 2- 2½" Conduit Fittings, 1- 1" Conduit Fitting
Cable Glands (kit included)	3- NPT 1" Cable Glands, 2- M75 Cable Glands, 3- M63 Cable Glands

### Standards Compliance & Certifications

Strikesorb modules are compliant to the following Surge Protection Device Standards:

Standards: UL 1449 5th Edition: 2021, IEC 61643-11: 2011, EN 61643-11: 2012, IEEE C62.11: 2005, IEEE C62.41: 2002, IEEE C62.45: 2002, NEMA-LS-1

Certifications: UL, VDE, CE

AWG=American Wire Gauge



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