

Rooftop / Towntop

The DC6-48-60-18-8C 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 and fiber distribution/cable management at rooftop or towtop sectors.

The solution employs the patented Strikesorb® 30-V1-HV surge protective device (SPD), capable of providing 5kA (10/350  $\mu$ s) of surge capacity for up to 6 -48V DC circuits.

powered by  
**Strikesorb®**

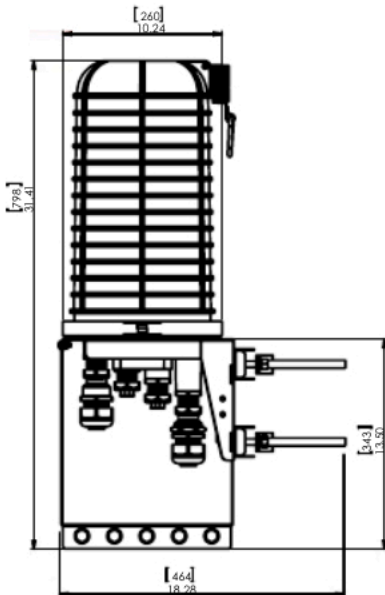


**Features**

- Provides protection for six individual -48V DC circuits
- Surge protection of 60kA 8/20  $\mu$ s
- Maximum impulse current 5kA 10/350  $\mu$ s
- Fiber connections for up to 18 fiber pair
- Simplifies inter-connectivity and cable management for DC conductors
- UL 1449 4th 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
- Raycap recommends that DC protection system be installed within 5 meters of the radio
- Copper coated lid to reduce power line interference
- Patent pending

**Benefits**

- Strikesorb modules are fully recognized to UL 1449 4th 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
- Design provides maximum flexibility for installation on top of towers or roofs
- NEMA 4X enclosure allows for indoor or outdoor installation



## SPECIFICATIONS

# DC Surge Protection Solutions for Rooftop or Towntop

## DC6-48-60-18-8C

Overvoltage Protection and Fiber Distribution/Cable Management Solution

powered by

**Strikesorb®**

### Electrical

Model Number	DC6-48-60-18-8C
CEQ / ANT Number	ANT.15403
Number of Circuits Protected	6
Surge Protective Device (SPD) Type per UL 1449 4th Edition	Type 2
Surge Protection Class as per IEC 61643-11	Class I
Nominal Operating DC Voltage [ $U_n$ ]	48 V
Nominal Discharge Current [ $I_n$ ] per UL 1449 3rd Edition	20 kA 8/20 $\mu$ s
Maximum Surge Current [ $I_{max}$ ] per IEC 61643-11	60 kA 8/20 $\mu$ s
Maximum Impulse (Lightning) Current [ $I_{imp}$ ] per IEC 61643-11	5 kA 10/350 $\mu$ s
Maximum Continuous Operating DC Voltage [ $U_c$ ] (MCOV)	75 VDC
Voltage Protection Level [ $U_p$ ] per IEC 61643-11	300 V
Voltage Protection Rating (VPR)	600 V
Suppression Technology	MOV
Strikesorb Module Type 2CA (UL 1449 4th 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, 12-6 AWG [3.3-13.3 mm <sup>2</sup> ]
Connection Terminal (Terminal Block) Method	Copper #12 to #6 AWG [3.3 to 13.3 mm <sup>2</sup> ]
Fiber Connection Method	LC-LC Single Mode
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 4X
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*	System: 16.0 lbs [7.25 kg] Mount: 10.2 lbs [4.62 kg] Total: 26.2 lbs [11.87 kg]
Combined Wind Loading	Sustained 150 mph Sustained: 105.7 lbs [470 N] Gust 195 mph Gust: 213.6 lbs [950 N]

### Optional Configuration

Power connection system with OVP	DC6-48-60-0-8C	ANT.15404
----------------------------------	----------------	-----------

### Standards Compliance & Certifications

NEBS certified to: GR-63-CORE Issue 4, GR-1089-CORE Issue 6, GR-3108-CORE Issue 3, GR-487-CORE Issue 4, ATT-TP-76200 Issue 18
Strikesorb modules are compliant to the following Surge Protection Device Standards:
Standards: UL 1449 4th Edition: 2011, 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



**Raycap**

www.raycap.com

G02-00-915 160429