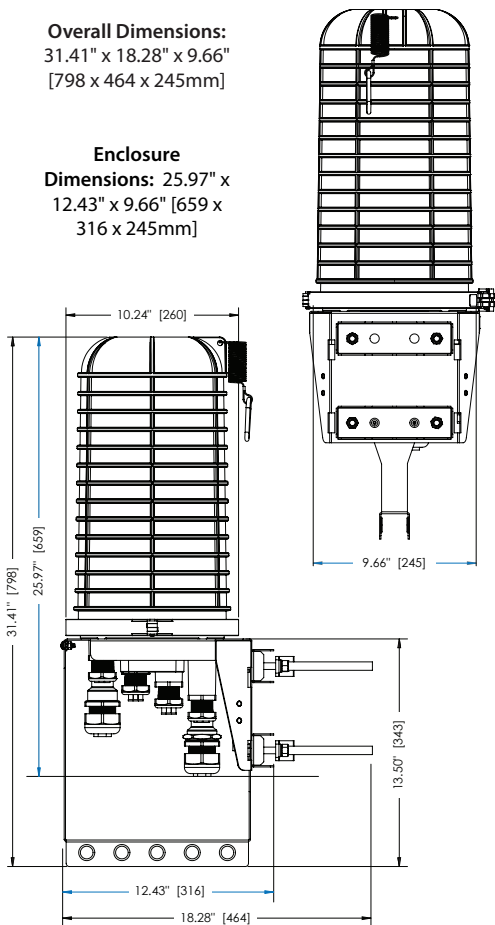


Rooftop / Towertop

The DC6-48-60-18-8C-EV is designed to provide the ultimate coordination between the SPD and the RRH/RRU by offering industry-leading low-clamping voltage of 160V and extremely robust protection for use in a high DC voltage environment. Capable of providing 12.5kA (10/350 μ s) max per circuit surge capacity for up to 6 -48V DC circuits.

Overall Dimensions:
31.41" x 18.28" x 9.66"
[798 x 464 x 245mm]

Enclosure Dimensions: 25.97" x 12.43" x 9.66" [659 x 316 x 245mm]



powered by
Strikesorb®

**Features**

- Provides discrete protection for six individual -48V DC circuits
- Surge protection of 90kA 8/20 μ s
- Maximum impulse current 12.5kA 10/350 μ s
- Fiber connections for up to 18 fiber pair
- Supports 12 AWG, 10AWG or 8AWG DC Jumpers
- 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
- Copper-coated lid to reduce power line interference
- Patented design
- Patented Strikesorb technology ensures lowest let-through voltage available in the industry, providing enhanced coordination with the RRH/RRU
- Raycap recommends that DC protection system be installed within 5 meters of the radio

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
- Design provides maximum flexibility for installation
- NEMA 4X enclosure allows for indoor or outdoor installation

Strikesorb is a registered trademark of Raycap
© 2022 Raycap All rights reserved.
G02-01-203 220505

SPECIFICATIONS

DC Surge Protection Solutions

DC6-48-60-18-8C-EV

Overvoltage Protection and Fiber Distribution/Cable Management Solution

powered by

Strikesorb®

Electrical

Model Number	DC6-48-60-18-8C-EV
CEQ / ANT Number	CEQ.18537
Number of Circuits Protected	6
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_n]	48 V
Nominal Discharge Current [I_n] per UL 1449 5th Edition	20 kA 8/20 μ s
Maximum Surge Current [I_{max}] per IEC 61643-11	90 kA 8/20 μ s
Maximum Impulse (Lightning) Current [I_{imp}] per IEC 61643-11	12.5 kA 10/350 μ s
Maximum Continuous Operating DC Voltage [U_c] (MCOV)	60 VDC
Voltage Protection Level [U_p] per IEC 61643-11	160 V
Voltage Protection Rating (VPR) per UL 1449 5th Edition	330 V
Suppression Technology	MOV
Strikesorb Module Type 2CA (UL 1449 5th edition)	30-V1-EV
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 ²]
Connection Terminal (Suppression) Method (for all power cables)	Compression lug 2 hole, #10, 5/8 pitch, #12 – #4 AWG [3.3 – 21.15 mm ²]
Connection Terminal (Terminal Block) Method	Copper #12 to #4 AWG [3.3 – 21.15 mm ²]
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
Overall Dimensions (L x W x H)	31.41" x 18.28" x 9.66" [798 x 464 x 245mm]
Enclosure Dimensions (L x W x H)	25.97" x 12.43" x 9.66" [659 x 316 x 245mm]
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]

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 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



Raycap

www.raycap.com

G02-01-203 220505