**DATA SHEET** 

## **Rooftop Sector Solution** for **RRH** Applications

RDIDC-3045-PF-48





### **Features**

- Employs the Strikesorb<sup>®</sup> 30-V1-2CFV Surge Protective Device (SPD) specifically designed for the Remote Radio Head (RRH) installation environment and certified for use in DC applications and at low DC operating voltages (48V)
- The Strikesorb 30-V1-2CFV is a Class I SPD, certified by VDE per the IEC 61643-11 standard as suitable for installation in areas where direct lightning exposure is expected. Strikesorb 30-V1-2CFV is able to withstand direct lightning currents of up to 12.5kA (10/350) and induced surge currents of up to 60kA (8/20).
- Provides very low let through / clamping voltage unique for a Class I product as it does not employ spark gaps or other switching elements. Strikesorb offers unique protection levels to the RRH equipment as well as the base equipment
- For shared circuit protection architecture
- Configurable cable ports are designed to accommodate varying diameters of hybrid (combined power and fiber optic) or standard cables
- Fully recognized to the UL 1449 4th Edition Safety Standard
- Patent pending design

#### **Benefits**

- Offers unique maintenance-free protection against direct lightning currents
- Protects up to 3 Remote Radio Heads and connects up to 8 fiber pairs
- Utilizes a NEMA 4X rated enclosure, allowing for indoor or outdoor installation at the Towertop, Tower Base, and Rooftop Base



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Electrical	
Model Number	RDIDC-3045-PF-48
Nominal Operating Voltage	48 VDC
Nominal Discharge Current [In]	20kA 8/20µs
Maximum Surge Current [I <sub>max</sub> ]	60 kA 8/20 µs
Maximum Impulse (Lightning) Current per IEC 61643-11	12.5kA 10/350µs
Maximum Continuous Operationg Voltage [U <sub>c</sub> ]	75VDC
Response Time [t <sub>A</sub> ]	<1 ns
Voltage Protection Rating (VPR) per UL 1449 4th Edition	400 V
Let-through Voltage @ 20kA (8/20)	<410V
Let-through Voltage @ 10kA (8/20)	<330V
Voltage Protection Level (VPL) per IEC 61643-11	<200V @12.5kA 10/350µs
Fault Monitoring	Local status indicator - dry contact alarm
Circuit Configuration	Parallel; -48VDC suppy-return, return-ground
Protection Class as per IEC 61643-1	Class I
Incoming Power/Fiber	Power: #10/8/6/4/2 AWG (6 mm <sup>2</sup> - 33.6 mm <sup>2</sup> ) power trunk Fiber: LC/LC
Strikesorb Module Type	30-V1-2CFV
Mechanical	
Suppression Connection Method	Compression lug, #14 - #2 AWG (2.1 mm <sup>2</sup> - 33.6 mm <sup>2</sup> ) Copper; #12 - #2 AWG (3.3 mm <sup>2</sup> - 33.6 mm <sup>2</sup> ) Aluminum
Fiber Connection Method	8 LC-LC Single mode
Environmental Rating	NEMA 4X
Operating Temperature	-40° C to +80° C
UV Resistant	Yes
Combined Wind Load	150 mph (sustained): 110.5 lbs (491.5N) 195 mph (gust): 186 lbs (827.4N)
Dimensions	14" x 16" x 8"
Estimated Weight	21 lbs

Strikesorb modules are compliant to the following Surge Protective Device (SPD) Standards

Standards ANSI/UL 1449 4th Edition, IEEE C62.41, NEMA LS-1, IEC 61643-11 (Class I Protection), IEC 61643-12, EN 61643-11:2002 (including A11:2007)

#### **Product Diagram**

