

DC Surge Protection for RRH/Integrated Antenna Radio Head **RRDC-3300-PF-48**

Tower / Base / Distribution and Surge Protection

Raycap's flexible Tower, Base Stations protection and Distribution products provide protection for up to 6 Remote Radio Heads/Integrated Antennas. The solution mitigates the risk of damage due to lightning and provide high levels of availability and reliability to radio equipment.

The 3300 should only be used on sites of 200 feet or less.



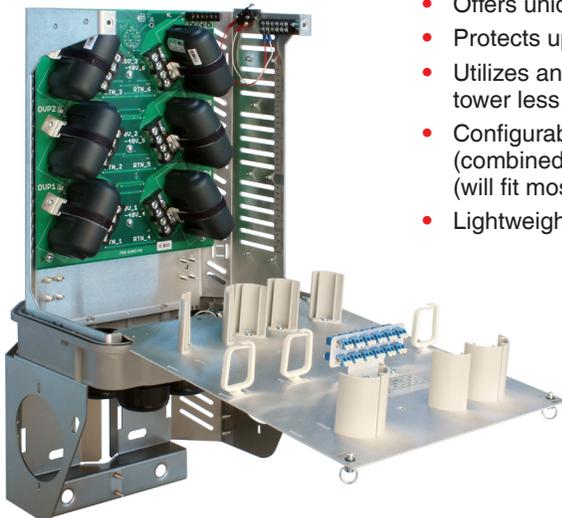
Mounting Bracket Included

Features

- Employs the Strikesorb® 30-V1-HV 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-HV 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-HV is able to withstand direct lightning currents of up to 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 Band Units
- Alarm for intrusion
- Fully recognized to the UL 1449 4th Edition Safety Standard
- Unit can be upgraded by purchasing a RS-485 Retrofit Kit to restore voltage monitoring for DC up-converter communication (Kit P/N: 3300-ALM-RS485 | 100-1794)
- Patent pending design

Benefits

- Offers unique maintenance-free protection against direct lightning currents
- Protects up to 6 Remote Radio Heads and connects up to 12 fiber pairs
- Utilizes an IP 67 rated enclosure, allowing for indoor or outdoor installation on a tower less than 200 feet
- Configurable cable ports are designed to accommodate varying diameters of hybrid (combined power and fiber optic) or standard cables with diameters up to 2" (will fit most standard 15/8" coax class cables) depending upon port configuration
- Lightweight aerodynamic design provides maximum flexibility for tower top installation



PSM-48

© 2018 Raycap All rights reserved.

G02-01-410 180515

SPECIFICATIONS

DC Surge Protection for RRH/Integrated Antenna Radio Head RRODC-3300-PF-48

Tower / Base / Distribution and Surge Protection

Electrical

Model Numbers	RRODC-3300-PF-48
Nominal Operating Voltage	48 VDC
Nominal Discharge Current [In]	20kA 8/20 μs
Maximum Surge Current [Imax]	60kA 8/20 μs
Maximum Impulse (Lightning) Current per IEC 61643-11	5 kA 10/350 μs
Maximum Continuous Operating Voltage [Uc]	75 VDC
Voltage Protection Rating (VPR) per UL 1449 4 th Edition	400V
Protection Class as per IEC 61643-11	Class I
Intrusion Sensor	Microswitch
Strikesorb Module Type	30-V1-HV Strikesorb modules installed to protect 6 Remote Radio Heads

Mechanical

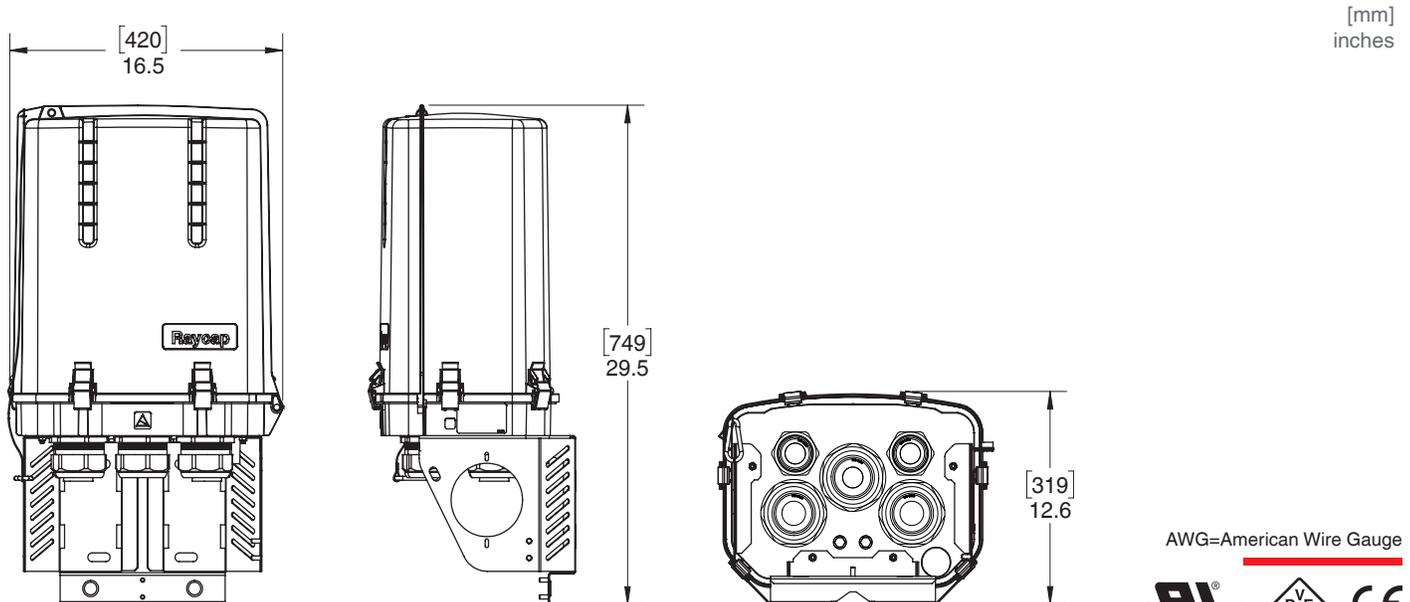
Suppression Connection Method	Compression lug, #14 - #2 AWG (2 mm ² - 33 mm ²)
Fiber Connection Method	LC-LC Single mode
Environmental Rating	IP 67
Operating Temperature	-40° C to +80° C
UV Resistant	Yes
Dimensions (L x W x H)	12.6" x 16.5" x 29.5" [319mm x 420mm 749mm]
Weight	System: 30 lbs (13.61 kg)
Combined Wind Loading	150mph (sustained): 185 lbs (823 N)

Standards Compliance

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

Standards	UL 1449 4 th Edition, IEC 61643-11: 2011, EN 61643-11:2012, IEEE C62.11: 2012, IEEE C62.41.2: 2002, IEEE C62.45: 2002 NEBS certified to: GR-63-CORE Issue 4, GR-1089-CORE Issue 6, GR-3108-CORE Issue 3, GR-487-CORE Issue 4, GR-950-CORE Issue 1
Certifications	UL, VDE, CE

Product Diagram



Raycap

www.raycap.com

G02-01-410 180515