

## Base Protection - Indoor

The DCx48-60-RM is designed to be the most robust lightning and power surge protector available for base station equipment in distributed node B or e-node B applications.

The flexible rack-mount design provides electrical protection and cable management for the base station equipment inside the shelter.

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.

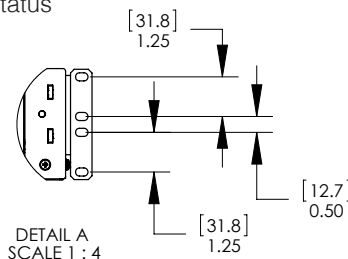
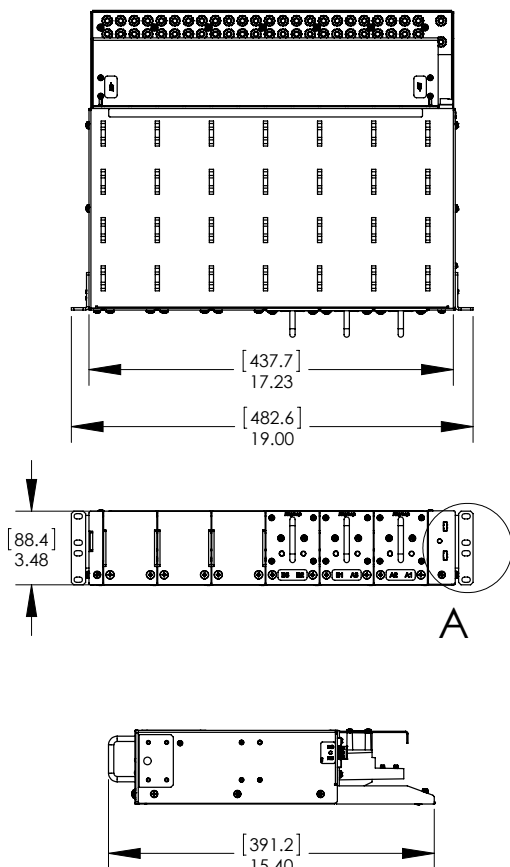
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**Strikesorb®****Features**

- The DCx-48-60-RM system's flexible and upgradable design provides protection for up to 12 -48V DC circuits. The unit can start as a 6 circuit protection system and by adding optional module packages is upgradable to 12 circuit protection. It can also be ordered fully-loaded to protect all 12 circuits.
- Surge protection of 60kA 8/20  $\mu$ s
- Maximum impulse current 5kA 10/350  $\mu$ s
- UL 1449 5th Edition Listed Type 2 protective device
- IEC 61643-11 Class I protection for DC applications
- Indoor installation only
- 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
- Blind mate connection results in short lead lengths for the best protection, ease of installation, and field serviceability
- System modules can be "unplugged" with no interruption of DC current
- Slim, 2RU design fits 19" and 23" rack configurations. Mid-mount brackets provide even weight distribution and easy installation
- Form C relay contacts are included, and allow remote monitoring of suppressor status



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## SPECIFICATIONS

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**Strikesorb®**

# DC Surge Protection Solutions for Base Station - Indoor Rated **DC6-48-60-RM • DC12-48-60-RM** Overvoltage Protection and Power Management Junction Box

### Electrical

Model Number	DC6-48-60-RM	DC12-48-60-RM
CEQ / ANT Number	CEQ. 32405	CEQ. 32407
Number of Circuits Protected	6	12
Surge Protective Device (SPD) Type per UL 1449 5th Edition	Type 2	Type 2
Surge Protection Class as per IEC 61643-11	Class I	Class I
Nominal Operating DC Voltage [U <sub>n</sub> ]	48 V	48 V
Nominal Discharge Current [I <sub>n</sub> ] per UL 1449 5th Edition	20 kA 8/20 μs	20 kA 8/20 μs
Maximum Surge Current [I <sub>max</sub> ] per IEC 61643-11	60 kA 8/20 μs	60 kA 8/20 μs
Maximum Impulse (Lightning) Current [I <sub>imp</sub> ] per IEC 61643-11	5 kA 10/350 μs	5 kA 10/350 μs
Maximum Continuous Operating DC Voltage [U <sub>c</sub> ] (MCOV)	75 VDC	75 VDC
Voltage Protection Level [U <sub>p</sub> ] per IEC 61643-11	300 V	300 V
Voltage Protection Rating (VPR)	700 V	700 V
Suppression Technology	MOV	MOV
Strikesorb Module Type 2CA (UL 1449 5th edition)	30-V1-HV	30-V1-HV
Protection Modes:	Normal Mode	-48V to Return
	Common Mode	Return to Ground
		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 [3.3-21.1 mm <sup>2</sup> ]
Connection Terminal (Terminal Block) Method	Copper #12 to #6 AWG [3.3 to 13.3 mm <sup>2</sup> ]
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	Indoor Only
Enclosure Dimensions (L x W x H)	15.40" x 17.23" x 3.48" [391.2 x 437.7 x 88.4 mm]
Weight*	21.0 lbs [9.52 kg] 27.0 lbs [12.24 kg]

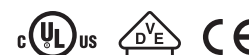
### Optional Product Configurations

Additional Circuit Protection (Field Upgradeable)	CEQ. 12657	Order DC2-48-60-RMU for DC circuit module kit to protect an additional 2 radios
Pre-wired Module Kit for a single remote radio, *Module Weight: 5.64 oz [160 g] (calculated into the above Part Number weights.)		
Accessory Kit	DC6-8F-ACC-KIT	CEQ.11443
Modification Kit	DC6-48-MOD-KIT	CEQ.11444

### Standards Compliance & Certifications

NEBS certified to:	GR-63-CORE Issue 4, GR-1089-CORE Issue 6, GR-3108-CORE Issue 3, ATT-TP-76200 Issue 17
Strikesorb modules are compliant to the following Surge Protection Device Standards:	
Standards:	UL 1449 5th 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



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