ACT 491 Power To Antenna (PTA)

Distribution System



ACT 491-075-006-R

▶ The ACT 491 Power To Antenna (PTA) Distribution Panel is a DIN rail mounted, DC Distribution Panel with replaceable plug in module Surge Protectors, and optional breakers.

This protection family is specifically designed to protect the power to your sensitive Cellular and Antenna equipment against harmful lightning surges and electrical transient surges that are so common on a cell tower, while allowing easy distribution of your DC power to the Antennas.

The ACT 491 Cellular PTA Family can utilize either a hybrid protection circuit consisting of MOV technology DIN Protectors (standard product) or an optional high energy Gas Discharge Tubes (GDT's) with fast clamping MOV DIN Protectors. Both solutions offer an ultra-fast response time and are very high power handling capability of 50 kA 8/20us surge wave per power line (100kA per power pair). Unlike many of the other DC protector companies, these units automatically reset after each surge event. These protectors also allows hot swappable plug in protectors, so you never have to turn off the power to service the unit.

Radio unit – Mounted up the tower near the radios and offers surge protection on both the + and – voltage and includes DC Power Distribution up to 24 radios.

Base Unit - Mounted near base of the tower or close to the rectifier units. SPD and Optional Breaker Protection are typical.

FEATURES

- Full Range of Voltage Levels Perfect for any Cellular or Telephone Application
- Powers up to 24 Radio Heads
- Hybrid (MOV and Gas Tube) and MOV only (typical) Technology
- Broad bandwidth Low Power Loss
- DIN mounting makes for easy installation Hot Swap Modular SPD makes for easy and quick repairs
- Remote Status Alarm Option No more guessing if each protectors on the tower are working.
- Circuit Breaker Options Locally protect DC voltage feeding equipment
- Surge Protector is UL 497 Listed
- Made in the USA
- 2 Year Standard Warranty

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MECHANICAL

Overall Dimensions: 14.13 x 12.26 x 6.13 inches

Weight: Changes with model number

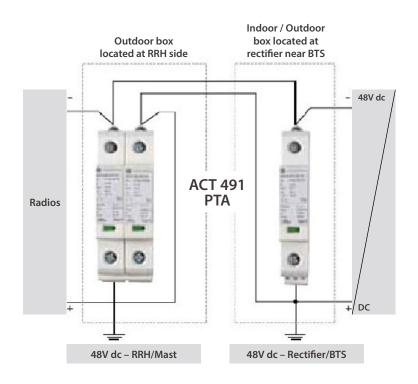
Material: Molded fiberglass polyester

enclosure with matching cover. Enhanced UV inhibitors protect against outdoor weathering

Standards Compliance: UL 508 Type 1,2,3,4,4X,12, and 13 Complies with: NEMA Type 1,2,3,4,4X,12, and 13

TYPICAL TWO BOX SYSTEM PER RADIO

-48V Power to the Antenna Distribution Panels



ELECTRICAL

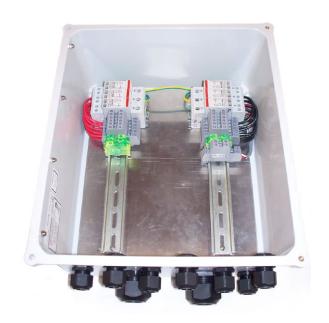
ACT 450-DS240 DIN Protector

Nominal DC Voltage Un	12	24	48	75	95	110	130	220	280	350
Max DC Operating Uc	24	38	65	100	125	150	180	275	350	460
Nominal discharge current per line in kA In		10	15	20	20	20	20	20	20	20
Max discharge Current Imax in kA	20	20	40	40	40	40	40	40	40	40
Protection level at In Up-In VCD	250	250	390	390	450	500	620	900	1200	1400
UL 1449 4th edition VPR	330	330	400	400	_	_	600	_	_	_
Thermal Disconnector	internal	internal	internal	internal	internal	internal	internal	internal	internal	internal
Fuses (if necessary)	20A	20A	20A	50A	50A	50A	50A	50A	50A	50A
Circuit Breaker Option	One per Radio Unit typically 10A dc current rating									
Status Indicator	By mech	anical flag	and remo	te alarm						
Protector Module	Replaceable - Plugable									
	IEC61643-11 International			Low volta	ge SPD - Te	est Class II				
Standards Compliance	UL 1449 4th Edition USA			Type 4						
	UL 94-VO									

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PART NUMBER AND OPTIONS

ACT 491-YYY-UVV-Z

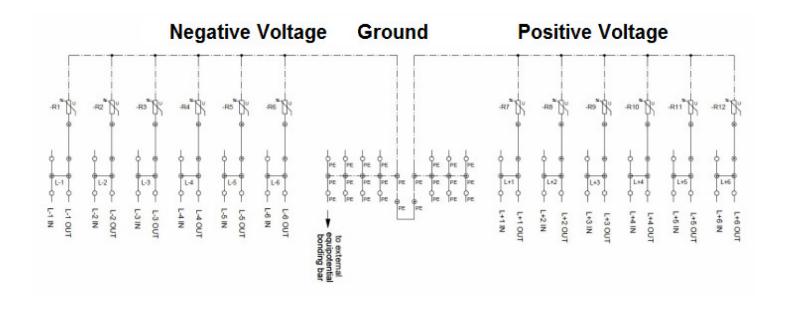
		24vdc
Where YYY= DC Voltage	48	48vdc
		Typically used on a -48vdc system like telephone
Where U = Top or Bottom of Tower		Standard unit near antenna, surge protection on both + positive and – negative DC supply voltage
		Standard unit at base of the tower, surge protection only on – negative DC supply voltage
Where VV = Number of radios to be powered	04	
	06	
	08	
	12	
Where $Z = Options$	R	Remote Relay Alarms (typically at antenna unit)
Where Z = Options		Breakers installed (typically at base unit)

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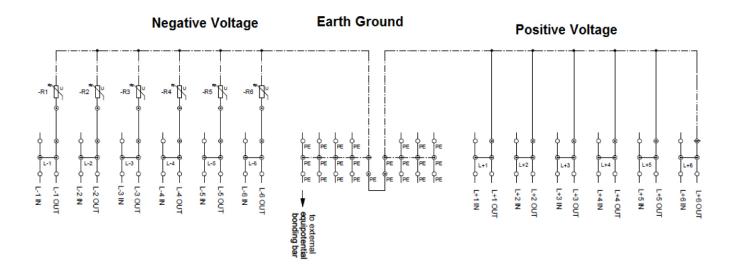




On top of tower near radios:



PTA - Mounted at base of tower:



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