

Description

The 2 KVA inverter has been meticulously designed for telecom applications. It adeptly converts 48V DC power into a 230V AC output, facilitating the operation of AC-powered telecom equipment.

Its design is well-suited for operation in both indoor and outdoor environments, adhering to the standard 19" rackmount configuration specified by telecom standards for outdoor use.

The inverter is designed with a 19" shelf-mount solution for effective space management.



Energy Saving – Utilizes innovative technology to maximize efficiency.

Optimal Functionality – Performs effectively across a wide range of temperatures.



Applications

This inverter is designed to effectively supply power to telecom loads at both indoor and outdoor telecom cell sites, Including –

- Network base stations.
- Small cell sites



Technical Specifications

1.1 DC Input	
Operating Range	42V _{dc} to 58V _{dc}
Rated Input Voltage	53.5 V _{dc}
Maximum Input Current	62.5 A
Starting Impulse Current	<45A
Maximum Input Voltage	60 V _{dc}
Crest Factor	3
Over Temperature / Short Circuit Protection	Yes

Over Temperature / Yes Short Circuit Protection		
1.2 AC Output		
Output voltage	220 V _{ac} (Output Voltage is not Adjustable)	
Power reduction of Power Grid	1600W -2000W (176V _{ac} - 200V _{ac}) 200W (200V _{ac} -265V _{ac})	
Stabilizing Accuracy	≤ ±1%	
Ripple and noise	≤200mVp-p (bandwidth ≤20MHz)	
Standby power	≤5W	
Boot Start Up time	<10s	

>94% (Peak) @ ACINPUT >92% (Peak) @ DCINPUT

1.3 Operational Environment		
Operating temperature	-20 °C to +75 °C Note: For DC/AC & AC/AC -20 °C to +45 °C - It works normally. +45 °C to +75 °C - line derating to 1200VA/1200W. For AC/DC -20 °C to +45 °C - It works normally. +45 °C to +75 °C - line derating to 18A derated to 40%	
Storage Temperature	-40 °C to +75 °C	
Relative Humidity	5% - 95% (No condensation)	
Altitude	≤ 4000m (3000m – 4000m the temperature will decrease by 1°C for every 200m)	

1.4 DC Output	
Output Voltage	$40V_{dc} \sim 58V_{dc}$ Rated at $53.5 V_{dc}$
Linear Power derating	1600W; 176V _{ac} ~ 265 V _{ac}
Standby power	≤5W
Ripple and noise	≤200mVp-p(bandwidth ≤20MHz)
Output holding time	>10ms



Efficiency