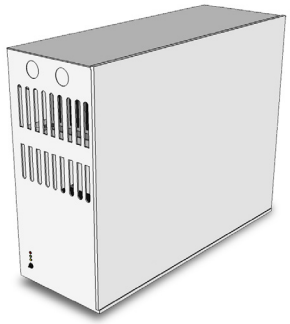
Brief #: IIS-14-0110
Date: Aug. 5 2014
Product: IIS Series Inverters
Subject: Mounting Distances

TECHNICAL BRIEF



MAXIMUM MOUNTING DISTANCES FROM LOADS FOR IIS UNIT INVERTERS

The distance at which the IIS inverter will operate a load is determined by a combination of the voltage, the load wattage, and the gauge of the wire. The chart below will help determine the distance (in feet) allowing for a 3% voltage drop.

	120V			208V*	240V*	277V*
Watts	**14 gauge**	**12 gauge**	**10 gauge**	**14 gauge**	**14 gauge**	**14 gauge**
50W	1600 ft	2468 ft	4084 ft	5000 ft	6750 ft	8623 ft
100W	809 ft	1249 ft	2066 ft	2500 ft	3325 ft	4311 ft
125W	646 ft	997 ft	1649 ft	2000 ft	2700 ft	3445 ft
150W	537 ft	829 ft	1372 ft	1650 ft	2250 ft	2874 ft
200W	404 ft	624 ft	1033 ft	1250 ft	1650 ft	2155 ft
250W	323 ft	493 ft	827 ft	1000 ft	1350 ft	1722 ft
300W	268 ft	414 ft	686 ft	825 ft	1100 ft	1437 ft
350W	230 ft	356 ft	589 ft	725 ft	950 ft	1230 ft
375W	214 ft	331 ft	548 ft	---	---	1146 ft
550W	146 ft	226 ft	374 ft	---	---	779 ft
				Load voltages available for IIS-350-UM model only.		

*Incandescent lamps are not generally operated above 140 volts except by special permission by the authority having jurisdiction.

TECHNICAL BRIEF

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