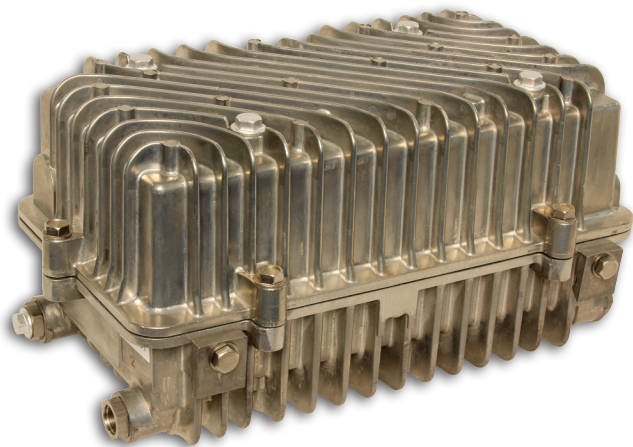


# Alpha Power Booster

APB HFC Voltage Booster



- Configurable for 90Vac or 60Vac Output Voltage
- High-efficiency Auto Transformer
- Intelligent Overload Protection
- Water-tight Enclosure; Wall or Strand Mounted
- Reverse Connection Protection
- Input Surge Protection
- Automatic Bypass in the event of downstream network failure

## The APB extends the reach of the network without adding to its footprint.

The APB was created to improve network efficiency and reduce life cycle cost by eliminating lightly loaded power supplies at the end of long amplifier cascades. The APB Voltage Booster accomplishes this by boosting end-of-line voltages. The voltage boost allows deeper

penetration of HFC networks, eliminating the need for power supplies and batteries near the end of the HFC network. The APB can also consolidate lightly loaded segments of a cable plant to be run off of a single power supply.

# APB Series HFC Voltage Booster Specifications

Electrical	
<b>Input Voltage:</b>	45-65Vac 60Hz / 65-90Vac 60Hz
<b>Input Current:</b>	10 Amps RMS (max.)
<b>Output Voltage:</b>	63Vac 60Hz / 87Vac 60Hz
<b>Output Current:</b>	<8 Amps RMS (max.)
<b>Output Rating:</b>	650VA (max.)
<b>Overload Protections*:</b>	115% of max input current for 27 minutes*
<b>Short Circuit:</b>	Bypass mode, automatic recovery
<b>Overload Recovery:</b>	Automatic
<b>Surge Resistance:</b>	6kV / 3000A (IEEE C61.45 part 15)
<b>Efficiency:</b>	>96% at 25 to 100% load
<b>RF Freq Range:</b>	5 to 1000MHz
<b>RF Insertion Loss Maximum:</b>	1.2dB (5 to 50MHz) 1.2dB (50 to 870MHz) 1.6dB (870 to 1000MHz)
<b>Flatness:</b>	±0.25dB (5 to 50MHz) ±0.35dB (50 to 870MHz) ±0.50dB (870 to 1000MHz)
<b>RF Slope Maximum:</b>	0.80dB (5 to 50MHz) -1.0dB (50 to 870MHz) -1.25dB (870 to 1000MHz)
<b>Hum Modulation:</b>	<-68dB (5 to 1000MHz) (<-82dB freq. domain)
<b>Return Loss Minimum:</b>	17dB (5 to 1000MHz)
<b>Electrical Egress:</b>	<-120dBm (45 to 870MHz)
<b>Isolation:</b>	Neutral carries through

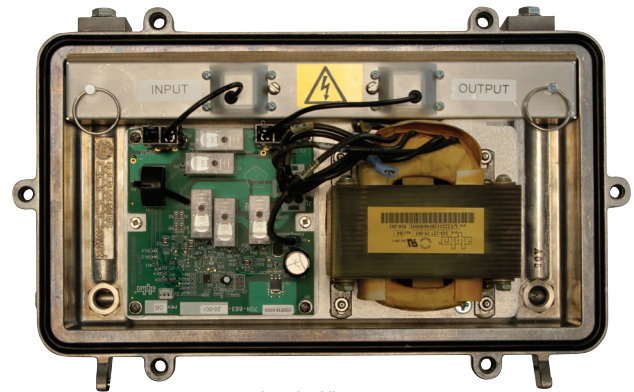
Mechanical	
<b>Dimensions L x H x D (in/mm):</b>	14 x 9.13 x 6.75 / 356 x 232 x 171
<b>Weight (lb/kg):</b>	21.4 / 9.7

Environmental	
<b>Operating Temperature:</b>	-40 to 65°C / -40 to 149°F
<b>Storage Temperature:</b>	-50 to 70°C / -58 to 158°F
<b>Outdoor Rating:</b>	Type 4 Enclosure

Standard Compliance	
<b>Safety:</b>	CSA (C/US) CAN/CSA C22.2 No. 60950-1-07 UL 60950-1, 2nd Edition

Standard Features	
High-efficiency autotransformer Intelligent overload protection Water-tight enclosure; wall or strand mounted LED function indicator light on PCB for troubleshooting	

Notes	
* The APB is designed to open up an output relay and discontinue output during extended periods of overload to protect vital components. Once this relay is open the unit will periodically attempt to close the relay to determine if the overload condition has ceased.	



Interior View



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