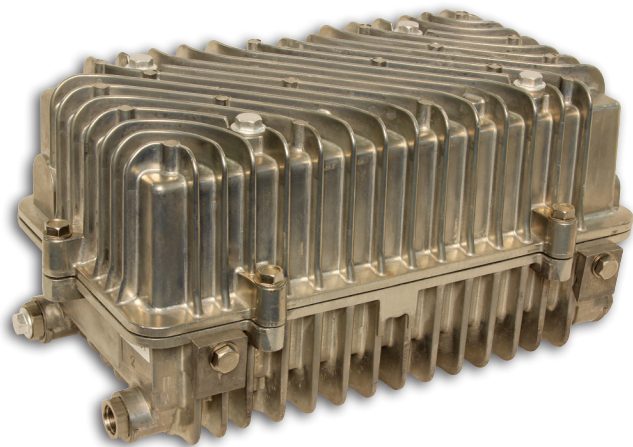


Alpha Power Booster

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.

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

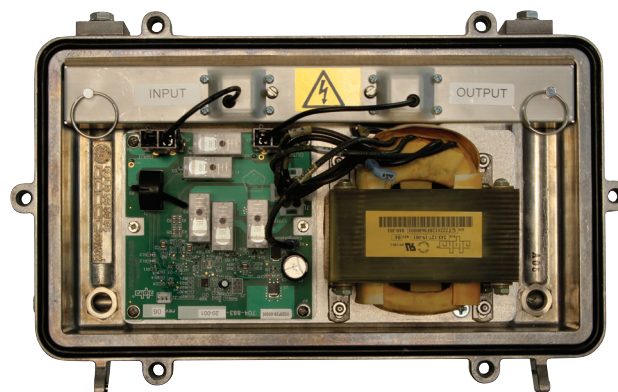
Mechanical	
Dimensions L x H x D (in/mm):	14 x 9.13 x 6.75 / 356 x 232 x 171
Weight (lb/kg):	21.4 / 9.7

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

Standard Compliance	
Safety:	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



049-362-10-004 (01/12)

North America

USA
Tel: +1 360.647.2360
Fax: +1 360.671.4936

Canada
Tel: +1 604.436.5900
Fax: +1 604.436.1233

Europe, Middle East & Africa

Cyprus
Tel: +357 25.375.675
Fax: +357 52.359.595

Russia
Tel: +7 495.925.9844
Fax: +7 495.916.1349

Germany
Tel: +49 9122.79889.0
Fax: +49 9122.79889.21

United Kingdom
Tel: +44 1279.501110
Fax: +44 1279.659870

Lithuania
Tel: +370 5.210.5291
Fax: +370 5.210.5292

Asia Pacific

P.R. China
Tel: +852 2736.8663
Fax: +852 2199.7988

Latin & South America

Contact USA Office