

75-Watt Multiband Amplifiers

A-3075 & A-3575



Features

- True HAVEQUICK & SINGGARS compatibility
- A-3575 JITC compliant
- Supports DAMA & other JTRS waveforms
- Multilevel power control for 12, 25, and 50/75 watts
- 75 watts for UHF 220-324 MHz and SATCOM uplink
- Weighs less than 10 lbs.
- Sealed, watertight and weather-resistant
- Fault/Status monitoring
- Radio manufacturer independent
- Three year warranty

Overview

The A-3575 and A-3075 provide the same trademark power and performance associated with all our amplifiers. Users benefit from consistent amplification across the 30-512 MHz range. Operators select 12, 25 and 50/75 watts. The 50/75 watt power setting provides 75 watts of power in the UHF TACSAT uplink band and 50 watts everywhere else. Like all AMTI amps, it is true HAVEQUICK and SINGGARS compatible (as opposed to many other amps that are merely capable). Another important distinction is AMTI's exceptional harmonic filtering and auto-sensing frequency hopping technology. As a result, the A-3575 and A-3075 will not inadvertently jam or desensitize other communication nets operating in the same area. The amp supports Demand Assigned Multiple Access (DAMA) and other JTRS waveforms. The units are MIL-STD 461E and MIL-STD 810F compliant.

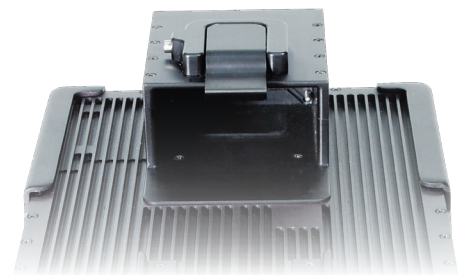
Applications

The A-3575 and A-3075 amplifiers are suitable for a variety of applications. They are easy to configure and easier to use. With local and remote output power control as well as fault/status monitoring, they are ideal for ground vehicle, maritime and fixed/rotary wing installations. Each unit comes with an easy to install 'shock and vibration' isolating mounting tray and fused power cable. The amps weighs less than 11 pounds.

More than Quality Control

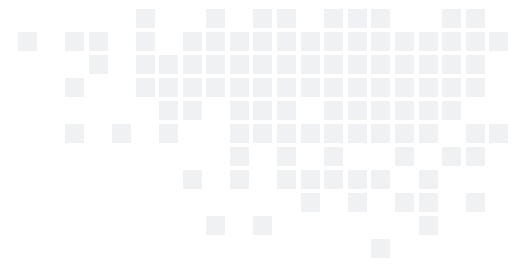
Each unit is put through vigorous testing and analysis prior to shipment. When you power up this amp, be confident that you get the performance you expect ... not part of the time, all of the time.

The only difference between the A-3075 and the A-3575 is the inclusion of a charging pocket for the MBITR radio.



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Technical Specifications:

Part No.	A-3075 & A-3575	
Size (H x W x D - inches)		
A-3075 w/cage assembly	11.39 x 7.0 x 4.76	
A-3575	10.12 x 6.75 x 2.78	
Weight (with cage assembly)		
A-3075	<11 lbs.	
A-3575	<11.5 lbs.	
Frequency Range	30-512 MHz	
Radio Charging Pocket	A-3075 only (12.6 V Lithium Ion battery)	
RF Input	3-8 watts (5 watts nominal)	
RF Output (FM)	12 and 25 watts: 30-512 MHz 50 watts: 30-219 and 325-512 MHz 75 watts: 220-324 MHz	
RF Output (AM)	12, 25, and 50 watts PEP 110-512 MHz	
RX Path Insertion Loss	<1.5 dB	
RX Path VSWR	<2:1	
Bypass Path Insertion Loss	<1.5:1 dB	
AM Distortion	<15% 110-512 MHz	
Remote Control	RS-232 for power level control and remote status indicator	
MTBF	15,000 hours	
DC Power	10-36 VDC	
DC Input Power - Transmit	420 watts (max.)	
DC Input Power - Receive	20 watts	
RF Input Connector	TNC	
RF Output Connector	BNC (female)	
Operating Temperature	-40° to +60° C	
Duty Cycle	33% @ 60° C = 50 watts	
Weather-Resistant	IP-65	
Finish	Black, Anodized	
MIL-STD 461E	Certified	
MIL-STD 810F	Certified	

Indicators:

Power ON/OFF	•
Power Level Switch	•
Transmit Active	•
VSWR Fault	•
Over Current fault	•
RF Input Overload	•
Low RF Output	•
Over Temperature	•

With AMTI's exceptional harmonic filtering and auto-sensing technology, you will not inadvertently jam other friendly nets.

