

# VHF 100Watt Mobile Amplifier

## 136-174 MHz

### General Specifications

- Frequency Range: 136-174 MHz
- 100 Watts Output Power
- Input Power – set at the factory – see the table below
- Spurious & Harmonics meets FCC requirements
- Input/output Impedance: 50 Ohm
- Input/output Connector: type “UHF” female
- Duty Cycle at nominal voltage: 50% (5-minute maximum for Transmit mode)
- Operating Voltage: 13.8 VDC (nominal); 17.8 VDC (maximum)
- Off-Duty mode (no voltage at “+ IGNITION” clamp) DC current 0.1 mA (maximum)
- Receive mode DC current 185 mA (maximum)
- Transmit mode DC current: 18 A (nominal); 21 A (maximum)
- DC Connector: terminal block, screws # 6-32
- Load VSWR protection; overheat protection
- Indicator LEDs: DC (fleshing with alarm), TX
- Switching time to Transmit mode 200 us (nominal)
- Conventional cooling
- Operating Temp Range: -30°C to +60°C
- Storage and Transport Temp: -40°C to +70°C
- Humidity: 80% at +40°C (non-condensing)
- Altitude: 10,000 ft. maximum



### Power Input Range

Model Description	Power Input
DSDTV100-R1	100-200 mW
DSDTV100-R2	200-500 mW
DSDTV100-R5	500 mW – 1000 mW
DSDTV100-01	1-2 W
DSDTV100-02	2-5 W
DSDTV100-05	5-10 W
DSDTV100-10	10-20 W
DSDTV100-20	20-45 W

### Dimensions and Weight

- Dimensions: 2.8”H x 9.8”D x 6.8”W
- Weight: 5 lbs.

### Optional Features Available

- Alternate input/output connectors
  - “TNC” female
  - “N” female
  - “BNC” female

*These are preliminary specifications and are subject to change. Patents applied for.*



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