

SkyWave DX350

Mobile RF Linear Amplifier



www.telstar-electronics.com



Features

- +13.8V_{DC} Operation
- All Mode (AM, FM, SSB, CW)
- 10-Meter Amateur Band Coverage
- Toshiba 2SC2879 Push-Pull Configuration with Matched Transistors
- High Output Power / Low Harmonic Content
- Temperature Compensating Class-AB Bias
- Carrier Operated or Multiplexed¹ Transmit / Receive Switching
- Reverse Power Polarity Protected
- Thermal Shutdown
- Fuse Protected
- Selectable SSB Delay
- Low Stand-By Power Consumption
- Remote Operation Ready
- Large Extruded Heat Sink Provides Exceptional Cooling
- Premium Components & Printed Circuit Board

¹ Contact Telstar Electronics for details on using this feature

The SkyWave DX350 has an implied warranty to be free of defects in materials and workmanship for a period of 90 days from purchase. This warranty covers workmanship, parts (excluding power transistors), and labor. If it's determined that the amplifier has been used for a purpose other than intended, abused, or altered in any way, the warranty shall be void. Specifications subject to change without notice.

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Electrical

PARAMETER	VALUE	NOTES / CONDITIONS
Operating Modes	-	AM, FM, SSB, CW
Voltage Requirements	+13.8V _{DC}	Typical
	+15V _{DC}	Maximum
DC Current	25A	Typical @ 13.8V _{DC} , 350W-PEP
RF Input Power	50mW (AM, FM, CW)	Minimum
	10W (AM, FM, CW)	Maximum
	25W PEP (SSB)	
RF Power Output	200W (AM/FM/CW) 350W PEP (SSB)	Minimum @1dB Compression ²
2 nd Harmonic	-26dBc ³	100W CW@28MHz (Typical)
3 rd Harmonic	-23dBc ⁴	100W CW@28MHz (Typical)
Input/Output Impedance	50-Ohms	-
Input SWR ⁵	1.3:1	Typical
Power Gain	14.5dB @ 28MHz	Typical
Bandwidth	26-30MHz	0.5dB Gain Flatness
Class-AB Bias Current	200mA \pm 100mA	0°~80°C (Heat Sink Temperature)
Fuse	40A	ATO - Automotive Type
SSB Relay Delay	1 Second	Typical
Stand-By Power	1.75W	Typical
Reverse Voltage Protection	Continuous	No Damage to Amplifier or Fuse
Input / Output Connectors	SO-239	Coaxial
Printed Circuit Board	FR4 Material	Solder Mask & Silkscreen
Power Cord	12AWG Stranded	w/Strain Relief

Mechanical

PARAMETER	VALUE	NOTES / CONDITIONS
Chassis Material	Aluminum	0.040" Thickness
Dimensions	8" x 6" x 4"	L x W x H
Weight	3.0	Lbs.

² Driving amplifier into compression region can negatively impact harmonic performance.

³ Decibels below carrier.

⁴ Decibels below carrier.

⁵ Standing Wave Ratio.