



SOLID STATE TV TRANSMITTERS MTV 150/S



- ° **Generals.** The TV transmitter MTV 150/S gives 150 Watts peak sync in continuous service. It is suitable for analog or digital TV broadcasting.
- ° **Broadband.** Amplification circuits are broadband, so it is possible to change the transmission channel without their adjustments.
- ° **Stereo and dual sound.** The Audio/Video modulator is available with dual sound facility for stereo transmissions.
- ° **High efficiency** switching mode power supply guarantees high reliability, low heat generation and energy consumption.
- ° **Electronic protection** assures an affordable and stable operation protecting units against major fault conditions.
- ° **Meets or exceeds** all international standards for safety and electrical requirements.





MTV 150/S TECHNICAL CHARACTERISTICS

Radio characteristics:

Frequency range:	
MTI models	45-90 MHz
MTV models	174-230 MHz
Bandwidth	
Broadband	
Output Power:	
MTI 50/S – MTV 50/S	50 Wps (15 Wrms)
MTI 150/S – MTV 150/S	150 Wps (40 Wrms)
MTI 280/S – MTV 280/S	280 Wps (70 Wrms)
MTI 500/S – MTV 500/S	500 Wps (130 Wrms)
MTI 1000/S – MTV 1000/S	1000 Wps (250 Wrms)
MTI 1500/S – MTV 1500/S	1500 Wps (400 Wrms)
MTI 2000/S – MTV 2000/S	2000 Wps (500 Wrms)
MTI 2500/S – MTV 2500/S	2500 Wps (600 Wrms)
MTI 3000/S – MTV 3000/S	3000 Wps (0.8 kWrms)
MTI 5000/S – MTV 5000/S	5000 Wps (1.2 kWrms)
MTI 10000/S – MTV 10000/S	10000 Wps (2.4 kWrms)
MTI 20000/S – MTV 20000/S	20000 Wps (4.8 kWrms)
Output impedance	
50 Ω	
Output connector:	
From 50 to 500 Wps output power	N (others on request)
From 1000 to 1500 Wps output power	DIN 7/16" (others on request)
From 2000 to 3000 Wps output power	EIA 7/8" (others on request)
For 5 kWps output power	EIA 1+5/8" (others on request)
From 10 to 20 kWps output power	EIA 3+1/8" (others on request)
Spurious and harmonic suppression (ref. to carrier)	
< - 60 dBc (-62 dBc typ.)	
Power stability	
< 1%	
Intermodulation (IMD-DIN 45004 -8, -16, -10 dB)	
< -58 dB (typ. - 60 dBc)	

Video characteristics:

Input connector	BNC unbalanced
Input impedance	75 Ω
Input signal level	1 Vp.p.
Input return loss	>30 dB
Differential gain	< ± 3.5 %
Differential phase	< ± 3.5 °
Amplitude frequency response (in the vision band)	< ± 0.5 dB
Group delay frequency response (in the vision band)	< ± 50 nS
S/N ratio	> 64 dB
2T K factor	< 2 %
Luminance non linearity	< 2 %



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Audio Characteristics:

Input connector	XLR balanced
Input impedance	600 Ω
THD (50 KHz peak deviation at 1 KHz)	< 0.3 %
S/N (50 KHz peak deviation at 1 KHz)	> 65 dB
Deviation from preemphasis curve (20 Hz to 15 KHz)	\pm 0.5 dB

Metering:

Forward and reflected power, DC voltages and currents, inlet and heatsink air temperatures

Alarms:

VSWR, over temperature, vision signal missing, cooling system failure, overdriving

Operating conditions:

Operating voltage	110/220/240 Vac \pm 10%, 50/60 Hz
	single phase or 380/415 Vac \pm 10%, 50/60 Hz three phases
Power Consumption (at maximum power):	
MTI 50/S – MTV 50/S	140 VA
MTI 150/S – MTV 150/S	360 VA
MTI 280/S – MTV 280/S	670 VA
MTI 500/S – MTV 500/S	1.2 kVA
MTI 1000/S – MTV 1000/S	2.4 kVA
MTI 1500/S – MTV 1500/S	3.55 kVA
MTI 2000/S – MTV 2000/S	4.7 kVA
MTI 2500/S – MTV 2500/S	5.8 kVA
MTI 3000/S – MTV 3000/S	7 kVA
MTI 5000/S – MTV 5000/S	11.8 kVA
MTI 10000/S – MTV 10000/S	23.3 kVA
MTI 20000/S – MTV 20000/S	46 kVA
Cooling	
Operating temperature	forced air with fans
Humidity	-5° ÷ +45° C
	95% max



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Dimensions (WxHxD):

MTI 50/S – MTV 50/S	540x405x720 mm
MTI 150/S – MTV 150/S	540x405x720 mm
MTI 280/S – MTV 280/S	540x405x720 mm
MTI 500/S – MTV 500/S	540x405x720 mm
MTI 1000/S – MTV 1000/S	540x550x720 mm
MTI 1500/S – MTV 1500/S	540x550x720 mm
MTI 2000/S – MTV 2000/S	540x805x720 mm
MTI 2500/S – MTV 2500/S	540x805x720 mm
MTI 3000/S – MTV 3000/S	540x805x720 mm
MTI 5000/S – MTV 5000/S	540x1480x840 mm
MTI 10000/S – MTV 10000/S	540x1480x840 mm (2 cabinet)
MTI 20000/S – MTV 20000/S	540x1480x840 mm (4 cabinet)

Weight:

MTI 50/S – MTV 50/S	120 kg
MTI 150/S – MTV 150/S	122 Kg
MTI 280/S – MTV 280/S	128 Kg
MTI 500/S – MTV 500/S	145 Kg
MTI 1000/S – MTV 1000/S	156 Kg
MTI 1500/S – MTV 1500/S	158 Kg
MTI 2000/S – MTV 2000/S	210 kg
MTI 2500/S – MTV 2500/S	230 kg
MTI 3000/S – MTV 3000/S	260 kg
MTI 5000/S – MTV 5000/S	405 kg
MTI 10000/S – MTV 10000/S	810 kg
MTI 20000/S – MTV 20000/S	1650 kg

Features and specifications subject to change without notice.