



FMT Series FM Broadcast Transmitter User Manual



Before operating the transmitter for the first time, check for the proper AC line voltage setting and the antenna or dummy is good connect!

This manual provides important guidelines for installing. Review this information carefully for proper installation. Both unit specifications and manual contents are subject to change without notice.



Website: <http://www.108mhz.com> , <http://stores.ebay.com/Warner-RF-Center>
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Revised by: BG7CR on Apr-15th-2015.

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IMPORTANT

1. Maintenance can only be operated by authorized professionals.
2. Get lightning protection measures ready in thunderstorm weather.
3. Do not touch the antenna when the transmitter is powered on.
4. Do not power on the transmitter if the antenna is not well connected.
5. Do not use the transmitter under the explosive environment, such as gas/refueling station, etc.
6. Do not use the transmitter in the extreme dusty, damp or high temperature environment.
7. Be sure to comply with the rules released by the local radio administrations.
8. It is necessary that the mains system being provided with grounding to ensure both the operators' safety and correct operation of the equipment.

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- Operating instructions.
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FEATURE

FMT series product includes FMT-30A, FMT-80A, FMT-150A, FMT-350H, FMT-600H, and FMT-1000H, which its max power is 30W, 80W, 150W, 350W, 600W and 1000W. Each of the product possesses of multiple functions, reliable and steady performance, fast operations and well-structured in heat dissipation. Main features are as follows.

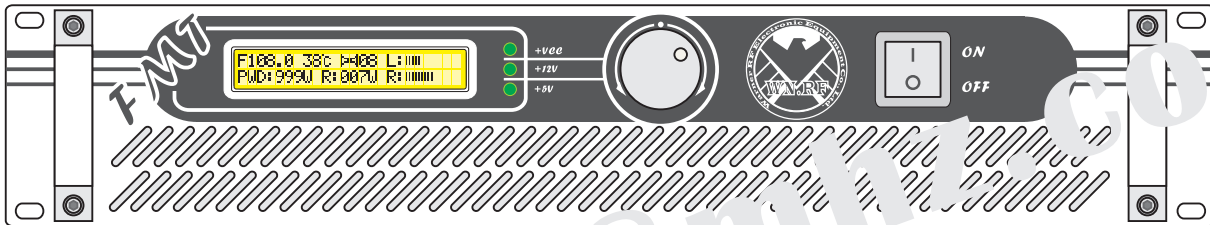
1. Standard 2U, 19 inch design, whole aluminum chassis.
2. Frequency from 87.5MHz to 108MHz in 100KHz step.
3. Power adjustable from 0-30/80/150/350/600/1000Watts.
4. Single Knob operation, simple and convenient to operate.
5. Simple interface design.
6. Mono/Stereo mode Optional.
7. LCD displays Frequency, Forward power, reflected power and UV meter.
8. Multi-level fans control automatically, fans works at different speed according to ambient temperature. Power at or above 350Watts, fans work continuously.
9. SWR & temperature protection. Alarm prompt indicated once either is out of the scope of protection value.



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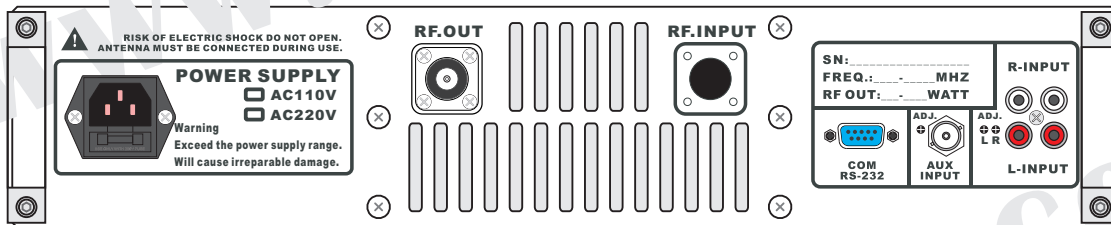
GENERAL ILLUSTRATION

1. Illustration of front panel

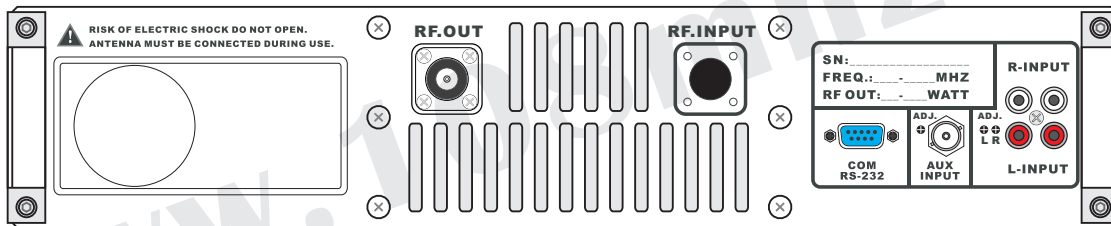


2. Illustration of back panel.

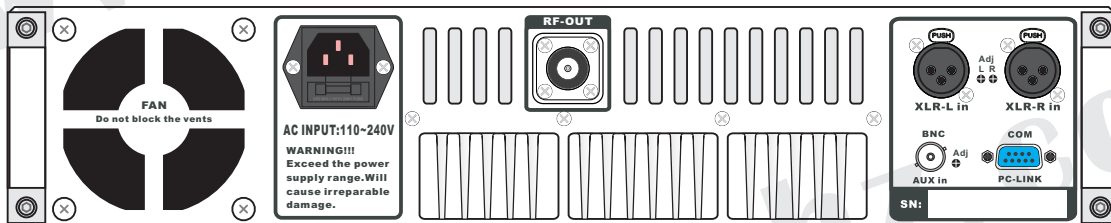
(1) Back panel of FMT-30A, FMT-80A, FMT-150A



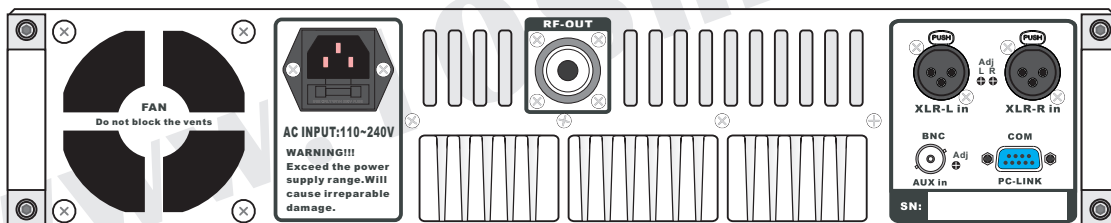
(2) Back panel of FMT-350H



(3) Back panel of FMT-600A

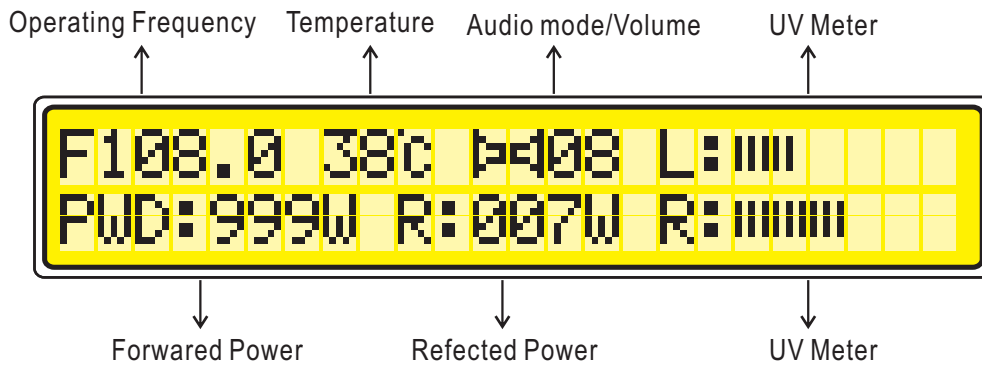


(4) Back panel of FMT-1000H



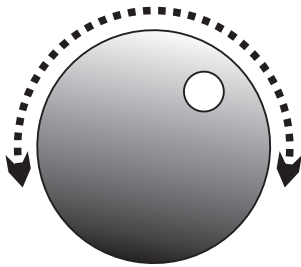
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3. Diagram of Display LCD



KNOB DEFINITION

1. Adjust Knob, to rotate or push.



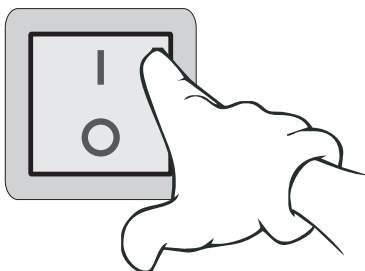
Rotate



Push

Operation	Definition	Function comments
Rotate	To adjust	To adjust/switch in the configuration menu.
Push	To confirm	To enter into or exit the configuration menu.

2. Power Switch, to turn ON/OFF.



Switch the button to 'I' to turn the transmitter , and 'O' means to turn it off.

IMPORTANT
Besure the antenna or dummy load is well connected before turning on transmitter.

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OPERATION INSTRUCTIONS

1. Turn ON/OFF

- (1) After the antenna or dummy load is connected, turn on the transmitter.
- (2) LCD boot screen for each model .

* Boot screen can be customized, please contact us before shipping



FMT-30A Ver:2.0301
Broadband FM Transmitter



FMT-80A Ver:2.0801
Broadband FM Transmitter



FMT-150A Ver:2.1501
Broadband FM Transmitter



FMT-350H Ver:2.3501
Broadband FM Transmitter



FMT-600H Ver:2.6001
Broadband FM Transmitter



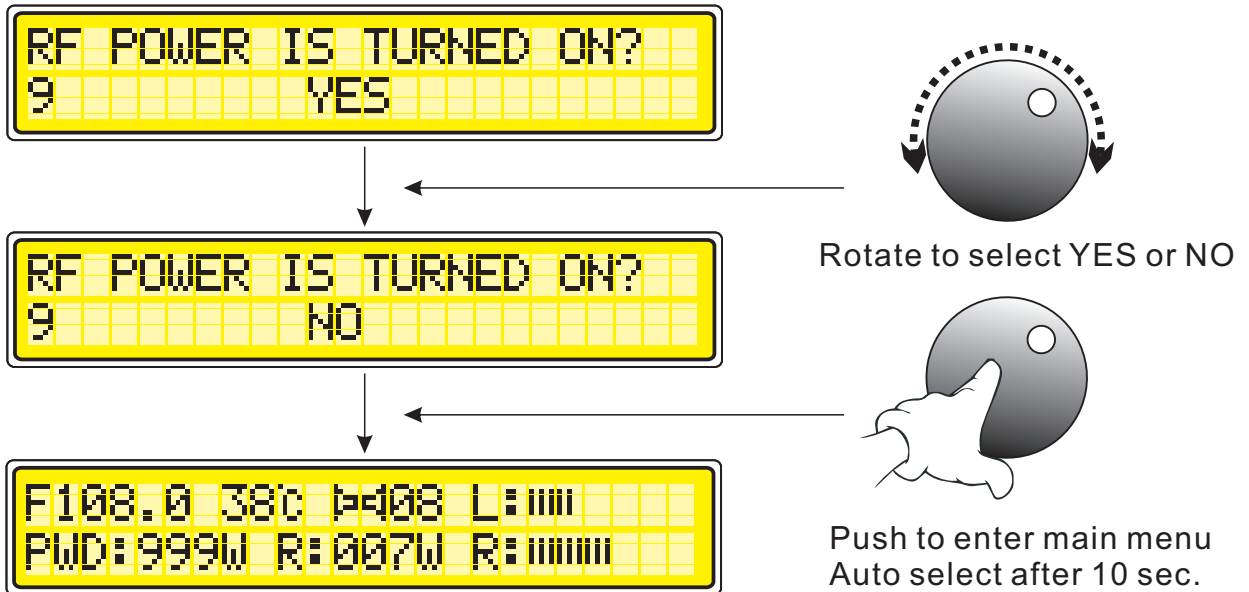
FMT-1000H Ver:2.9991
Broadband FM Transmitter

(3) LCD displays 'RF POWER IS TURNED ON?'

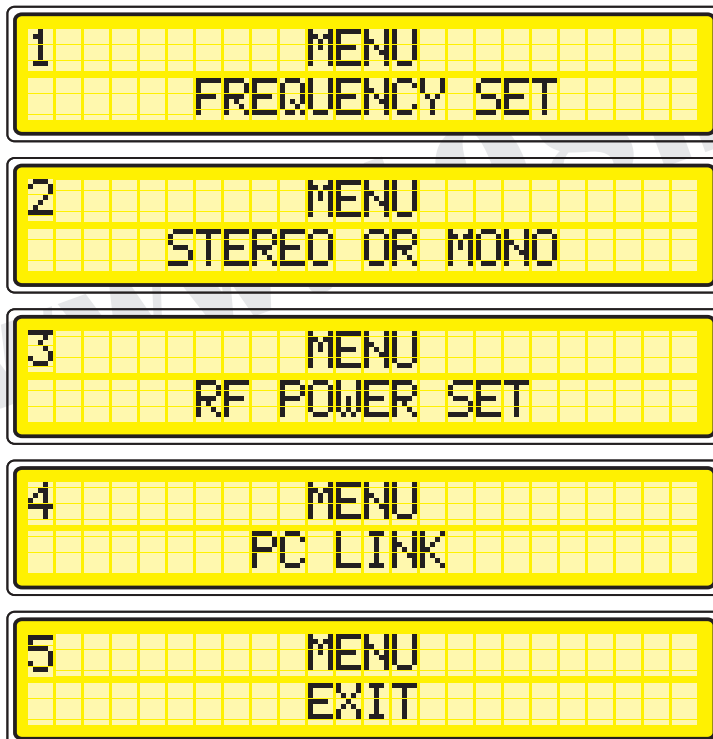
(4) Push the knob to turn on RF Power. Or rotate right to turn off RF Power. If the option is not selected in 10 seconds, the transmitter will turn on RF power automatically.

(5) If RF power is not turned on, the transmitter will set RF power = 0. Then the boot screen is illustrated as,

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At operating status, push briefly the adjusting knob to enter into the first menu, rotating right will come the following menu options. All configuration menu options are as follows,

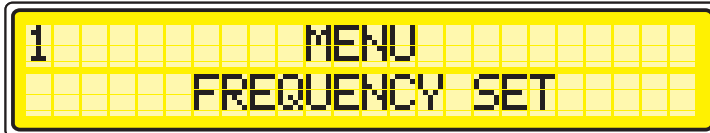


The following is the detailed instruction of how to configure each menu option.

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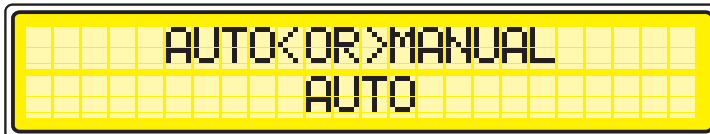
2. Set Frequency

(1) Push adjust knob to enter into 'FREQUENCY SET'.



(2) Push the knob to confirm.

If antenna automatically matching is available, the menu should be like this,



(3) Rotate left/right to switch to 'AUTO', and push the knob to confirm. Then, the transmitter will select a frequency that best matches the antenna.



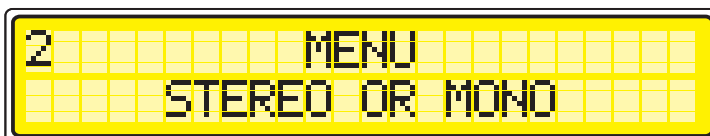
(4) The frequency can be adjusted by rotating knob left/right from 87.5MHz to 108MHz, the step is 100 KHz.



(5) Push the knob to confirm.

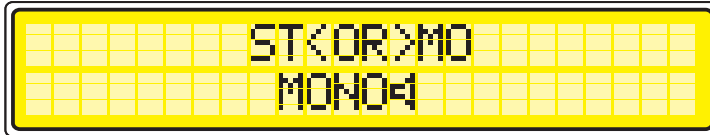
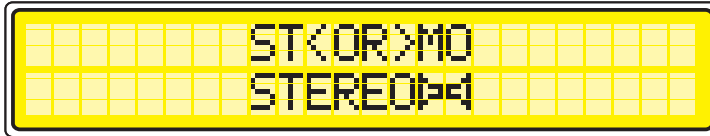
3. Set Audio Mode

(1) Press adjust knob and turn left/right to enter into 'STEREO OR MONO'.



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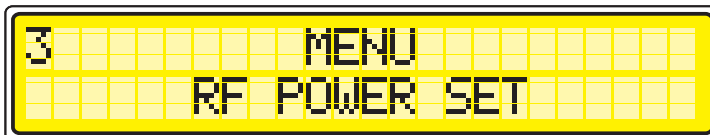
(2) The audio mode can be switched between stereo and mono.



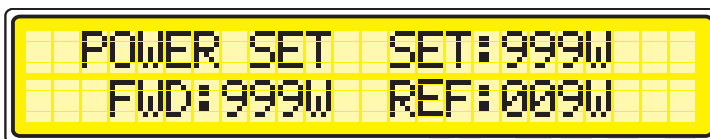
(3) Press the knob to confirm.

4. Set RF Power

(1) Press adjust knob and turn left/right to enter into 'RF POWER SET'.



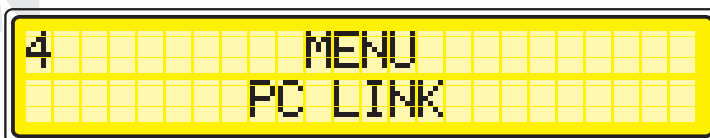
(2) The RF power can be set by turning the knob left/right from 0~30/80/150/300/600W Watts. The step of FMT-30A/80B step is 0.1W, the others step is 1W.



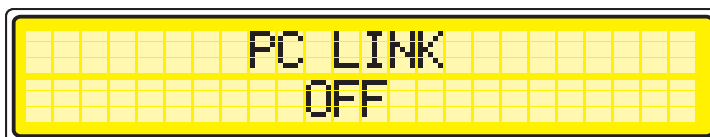
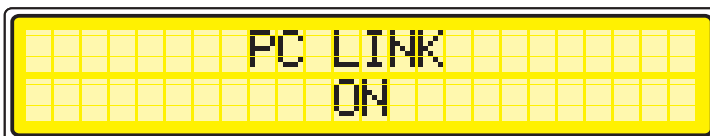
(4) Press the knob to confirm.

5. PC Link

(1) Press adjusting knob and turn left/right to enter into 'PC LINK'.



(2) PC LINK can be enabled/disabled by rotating the knob to left/right to ON or OFF.



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(3) In order to make the PC remote operation is necessary to have a RS232 male - female cable.

The software is designed for special purpose. This function is disabled in regular version.

6. Back to Main interface

At configuration menu, rotate the knob left/right to 'MENU EXIT' and push it to confirm, the transmitter will be back to main interface.



7. Audio Volume

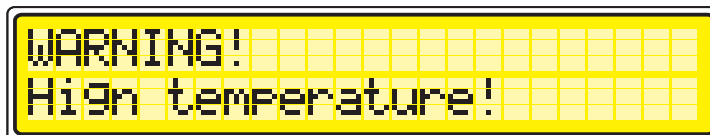
There is UV meter to display audio volume on LCD. At operating status, the volume can be adjusted by rotating left/right to increase/decrease. The volume range is 0-14.

While setting the volume 0, it equivalents to mute the transmitter.



8. Temperature/ SWR protection

Once either of the temperature or SWR is out of the scope of protection value, alarm prompt will be indicated on the display LCD, and RF power will be set to 0. After the problem is fixed, press the knob to exit the alarm status, RF power needs to be reset.



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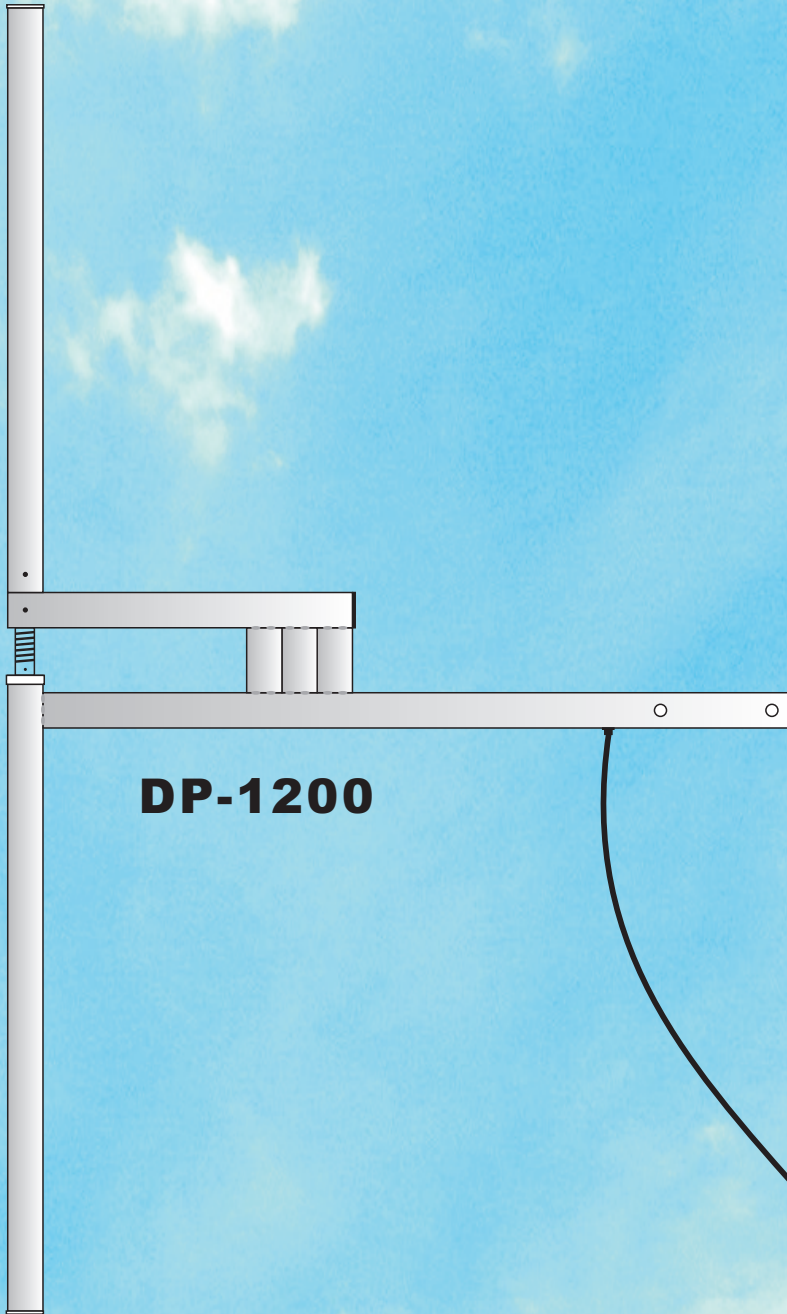
TECHNICAL SPECIFICATIONS

	FMT-					
	30A	80A	150A	350H	600H	1000H
Rated output Power	0-40W	0-80W	0-150W	0-350W	0-600W	0-1000W
Frequency range	87.5 to 108 MHz in 100kHz steps					
Modulation Mode	F3E(WFM)					
Frequency deviation	75KHz					
Tuning Design	PLL					
L&R Inputs	RCA *2 , 10 K Ω unbalanced				XLR, 10 K Ω unbalanced	
SCA Inputs	BNC connectors , 10 K Ω					
Frequency response	50Hz ÷ 15kHz (typical \pm 0.5 dB)					
Stereo Separation	40dB					
Audio Distortion	0.5%					
SNR	\geq 50 dB					
Output Impedance	50 Ω					
RF Output Connector	"N" type Female				7/8" EIA Flange	
AC Power	110 or 230 V, \pm 10%, 50-60 Hz, single phase					
Cooling	Internal fans,Auto				Internal fans,Forced	
Dimensions	Standard 2U 19 inches (483mm * 400mm * 89mm)					
Package Weight	8,5Kg	9Kg	9,5Kg	10,5Kg	11Kg	12Kg

ABOUT US

We are the core distributor of all Warner products, software development partner, eBay top-rated seller. We provide the most professional technical support and after-sale service. For wholesale and customized orders, please contact us for best price.





DP-1200

- FMT-30A**
- FMT-80A**
- FMT-150A**
- FMT-350H**
- FMT-600H**
- FMT-1000H**

