SPECIFICATIONS

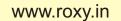| Model No.	RSA-65M / RSA-60DP
POWER REQUIREMENT	AC: 220-240V 50/60Hz, DC: 12V Car Battery
R.M.S POWER OUTPUT: MAXIMUM At 10% THD At 5% THD At 2% THD	80 Watts 65 Watts 45 Watts 36 Watts
INPUT CHANNELS	4 x Mic 0.5mV/ 4.7KΩ, 2-AUX: AUX-1 50mV/ 470KΩ, AUX-2 150mV/ 250KΩ
DIGITAL PLAYER*	MP3 Player with USB/ BT/ FM Functions & Remote Control
FREQUENCY RESPONSE	60Hz - 15000Hz ± 3dB
TONE CONTROLS	BASS: ±10dB at 100Hz (Cut-Boost Type) TREBLE: ±10dB at 10KHz (Cut-Boost Type)
LINE BOOSTER OUTPUT	500mV/ 600Ω
S/N RATIO	60dB
OUTPUT TAPS FOR SPEAKERS	4Ω, 8Ω, 16Ω & 100V Line
PROTECTION	2A AC Fuse, AMPLIFIER IS PROTECTED AGAINST WRONG BATTERY POLARITY
DIMENSIONS	W385 x 120H x 295D mm
WEIGHT	6.250 KG

* Not available in RSA-65M

MADE IN INDIA

• Design and Specifications are subject to change without notice.
• Technical specifications are estimates only 12/18.

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ROXY®
Since 1951

OPERATION
MANUAL

PA Mixer Amplifier + Digital Player
65W RMS / 80W Max.

USB READER

FX ECHO

MODEL No.

RSA-65M
RSA-60DP

WARNING

- To reduce the risk of electric shock, do not remove the top cover. No user serviceable parts inside. Refer all servicing to qualified personnel only.

- Before replacing any fuse, make sure the set is switched off and disconnected from the AC mains or any other power source. Replace a fuse only with another of exactly same specification.

CAUTIONS

Water & Moisture: To reduce the risk of fire or electrical shock, do not expose this set to rain or moisture. Do not use this set near water or in a wet location. Do not keep any object filled with liquid, such as a vase, on top of this set. Do not insert or remove the AC mains plug with wet hands.

Power Source: The voltage & frequency of the AC mains supply, and the voltage of the external battery, (if applicable) to which this set can be connected, is marked on the rear panel of the set. Do not connect this set to any power source other than those specified on the rear panel.

Power Cord Protection: Do not cut, kink, damage or modify the AC power cord supplied with this set. Keep the AC power cord away from heaters and harmful chemicals. Do not keep any heavy object on the power cord.

Operation on Generator: When operating this set on a generator, make sure the set is switched off till the generator voltage has stabilized.

Ventilation: This set should be situated so that its location or position does not interfere with its proper ventilation. Do not cover the ventilation holes / slots. Do not insert or drop anything into the ventilation holes / slots.

Stability: This set must be kept in a stable and flat horizontal position, and never in a tilted position. Do not place this set on an unstable stand, tripod, bracket or mount. Do not use attachments which are not supplied or explicitly recommended by the manufacturer.

Cover Strip: The cover strip of the 100V / 70V audio output terminal strip, and of any other high voltage output terminal strip, must be replaced after making connections. Failure to do so may result in exposure to hazardous voltages.

Earthing: This set must be earthed properly before use. A wire from the Earth terminal on the rear panel must be connected to electrical earth.

Cleaning: Disconnect this equipment from the AC mains and external battery before cleaning. Clean with a damp cloth, but do not allow any lequid to enter the set. Do not clean with liquids or aerosols.
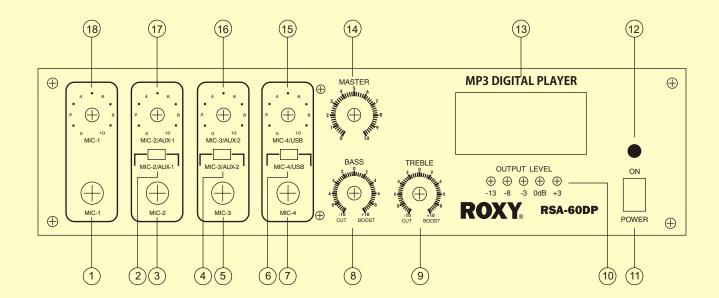
Exposure to Heat: Do not touch the heatsinks while the set is working.

- RSA-65M / RSA-60DP is a 65W power output Mixer Amplifier with 4-MIC & 2-AUX inputs.

- RSA-65M / RSA-60DP has a line output for connecting to a Booster Amplifier.

- 5-LED array display is provided to track speaker output level.

- Cut/Boost type Bass & Treble Control provided for enhanced tonal adjustment.

- RSA-60DP has Built-in MP3 Digital Player with USB/ BT/ FM Functions & Remote Control. It can be used to playback MP3 format songs from different sources like USB Drive or SD cards. An LED display enables users to keep a track on songs to be played.

- Provision for automatic changeover from AC to Battery operation if batteries are connected to ensure continuity of program in case of power failure.

- Protection provided against reverse polarity Battery connections.

- Designed for a wide variety of PA applications.

1. MIC-1 INPUT JACK SOCKET
For accepting unbalanced signal from a low impedance microphone.

2. MIC-2 / AUX-1 SELECTOR SWITCH

3. MIC-2 INPUT JACK SOCKET

4. MIC-3 / AUX-2 SELECTOR SWITCH

5. MIC-3 INPUT JACK SOCKET

6. MIC-4 / USB SELECTOR SWITCH

7. MIC-4 INPUT JACK SOCKET

8. BASS CONTROL
To Cut/Boost Bass Effect

9. TREBLE CONTROL
To Cut/Boost Treble Effect

10. LED ARRAY
This indicates the output level of the Amplifier.

11. POWER SWITCH
To Turn On/Off Amplifier

12. POWER LED
This LED glows when the amplifier is switched ON.

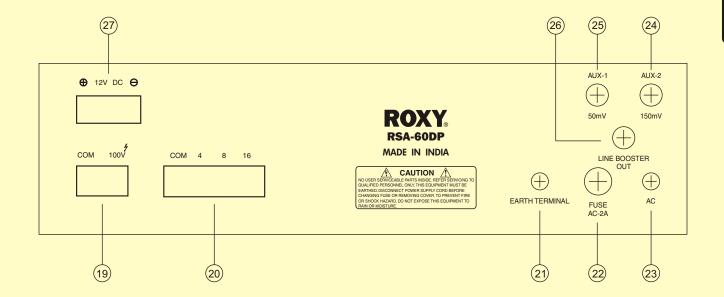**13. BUILT-IN MP3 DIGITAL PLAYER**
DP-79

14. MASTER VOLUME CONTROL
For adjusting the overall volume level from the amplifier.

15. MIC-4 / USB VOLUME CONTROL

16. MIC-3 / AUX-2 VOLUME CONTROL

17. MIC-2 / AUX-1 VOLUME CONTROL

18. MIC-1 VOLUME CONTROL

19. SPEAKER TERMINAL BLOCK (100V)
For connecting speakers with 100V line matching transformers.

20. SPEAKER TERMINAL BLOCK (4Ω, 8Ω & 16Ω)
For connecting low impedance speakers.

21. EARTH TERMINAL

22. AC MAINS FUSE (Rating 2 AMP)
This protects the amplifier from excessive current flow.

23. 3 CORE AC MAINS CABLE PLUG

24. AUX-2 INPUT JACK SOCKET
For accepting auxiliary input from Cassette Player, CD player, Echo unit etc.

25. AUX-1 INPUT JACK SOCKET

26. LINE OUTPUT JACK SOCKET
For connecting to a booster amplifier to obtain combined higher power output.

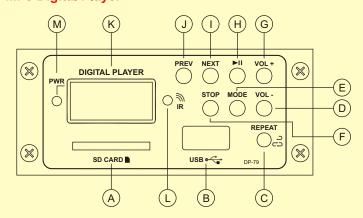**27. BATTERY TERMINAL BLOCK**
For connecting 12V Car Battery as standby power source.

CAUTION

• Disconnect input to AUX-2 Socket before using Built-in MP3 Digital Player. It should be noted that a user can use either AUX-2 source or Built-in MP3 Digital Player at one given point of time.

• Do not eject USB/SD Card while playing or using Built-in MP3 Digital Player. Doing so may damage USB/SD Card or Built-in MP3 Player.

• When speakers are connected to low impedence Terminal Strip (COM-4Ω-8Ω-16Ω), no speakers should be connected to COM-100V Terminal Strip & vis-a-versa doing so may damage Amplifier or Speaker or both.
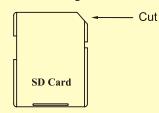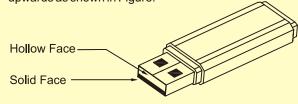
MP3 Digital Player

-: MP3 DIGITAL PLAYER :-

A. **SD/MMC Card Connector:** Insert the SD/MMC Card into its appropriate slot to play. When taking out the card, pull the card to take out.

While inserting SD/MMC card into the slot, ensure that the card is inserted in such a way that all pins are facing downward and cut is towards right as shown in figure.
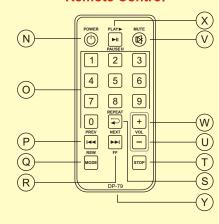

Cut

SD Card

B. **USB Connector:** Insert the USB drive here. While inserting USB drive into the USB connector, hold the USB drive in such a way that hollow part of the USB drive is upwards as shown in Figure.

Hollow Face

Solid Face

Any forceful insertion in wrong direction will damage the connector.

C. **REPEAT   :** Press once to repeat the song being played. Press again to repeat all the songs.

D. **VOL–:** To decrease volume level of MP3 Player.

E. **MODE:** To select SD or USB if both are inserted.

F. **STOP:** To stop the track being played.

G. **VOL+:** To increase volume level of MP3 Player.

H. **PLAY/PAUSE:** Press PLAY/PAUSE once to Pause if music is already playing. Press PLAY/PAUSE again to resume playing. Play will resume from the same point where it had stopped.

I. **Next:** Press NEXT to select next forward music track. Pressing NEXT repeatedly will move the system to successively next forward tracks.
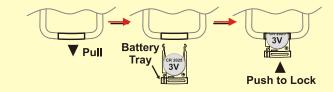
Remote Control

J. **PREV:** Press PREV to Select the previous track. Pressing PREV repeatedly will move the system to successively previous tracks.

K. **LCD DISPLAY:** Displays 3 digits of the track selected to play i.e. 001 to 999. During play, displays the time duration of the track played.

L. **IR Sensor:** Picks up signal from the Remote control. Point the Remote control towards this sensor when using the remote control.

M. **POWER ON LED**

-: REMOTE CONTROL :-

N. **POWER:** Press once to switch off MP3 digital player, press again to switch ON.

O. Number Key 0 to 9. To Choose the track number to be played.

P. **:** To select the previous track.

Q. **MODE:** To select SD or USB if both are inserted.

R. **:** Press to select the next track.

S. **:** Press once to repeat the song being played. Press again to repeat all the songs.

T. **STOP:** Press to stop the track being played.

U. **VOL:** Press to decrease the volume of Digital Player.

V. **MUTE:** Pres once to mute the sound, press again the resume the sound.

W. **VOL:** Press to increase the volume of Digital Player.

X. **PLAY/PAUSE:** Press Play/Pause once to Pause when music is already playing. Press Play/Pause again to resume replaying.

Y. **BATTERY REPLACEMENT:** Pull out the battery tray and replace the battery with positive electrode facing upwards as shown in figure below. Push the battery compartment back to theclose position. Use CR2025 or equivalent lithium coin cell.

Pull   Battery Tray   Push to Lock