YAMAHA

POWER SUPPLY for PM4000 Series

PW4000

OWNER'S MANUAL

IMPORTANT NOTICE FOR THE UNITED KINGDOM

Connecting the Plug and Cord

WARNING: THIS APPARATUS MUST BE EARTHED

IMPORTANT. The wires in this mains lead are coloured in accordance with the following code:

GREEN-AND-YELLOW

: EARTH

BLUE

: NEUTRAL

LIVE

coloured markings identifying the terminals in your plug proceed as follows:

BROWN

As the colours of the wires in the mains lead of this apparatus may not correspond with the

The wire which is coloured GREEN-AND-YELLOW must be connected to the terminal in the plug which is marked by the letter E or by the safety earth symbol $\stackrel{\perp}{=}$ or coloured GREEN or GREEN-AND-YELLOW.

The wire which is coloured BLUE must be connected to the terminal which is marked with the letter N or coloured BLACK.

The wire which is coloured BROWN must be connected to the terminal which is marked with the letter L or coloured RED.

* This applies only to products distributed by YAMAHA - KEMBLE MUSIC (U.K.) LTD.

Dette apparat overholder det gaeldende EF-direktiv vedrørende radiostøj.

Cet appareil est conforme aux prescriptions de la directive communautaire 87/308/CEE.

Diese Geräte entsprechen der EG-Richtlinie 82/ 499/EWG und/oder 87/308/EWG.

This product complies with the radio frequency interference requirements of the Council Directive 82/499/EEC and/or 87/308/EEC.

Questo apparecchio è conforme al D.M.13 aprile 1989 (Direttiva CEE/87/308) sulla soppressione dei radiodisturbi.

Este producto está de acuerdo con los requisitos sobre interferencias de radio freguencia fijados por el Consejo Directivo 87/308/CEE.

YAMAHA CORPORATION

Bescheinigung des Importeurs

Hiermit wird bescheinigt, daß der / die / das

Power Supply Typ: PW4000

(Gerät, Typ, Bezeichnung)

in Übereinstimmung mit den Bestimmungen der

82/499/EWG

(EG-Richtlinie)

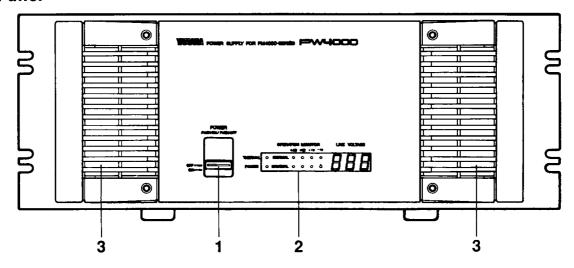
funkentstört ist.

Der Deutschen Bundespost wurde das Inverkehrbringen dieses Gerätes angezeigt und die Berechtigung zur Überprüfung der Serie auf Einhaltung der Bestimmungen eingeräumt.

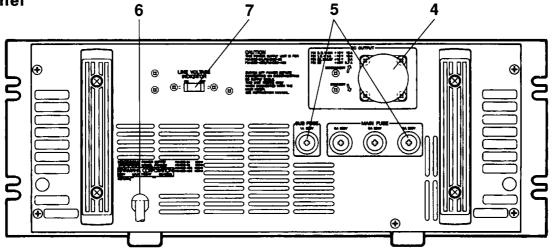
YAMAHA Europa GmbH

Name des Importeurs

■ Front Panel



🗰 Rear Panel



1. POWER

This alternate-action switch turns on the AC input to the supply, and thereby provides the necessary output voltages to the console via the umbilical power cable. Pressing the switch a second time turns off the power.

2. Operation Monitor

This panel of LEDs indicates when power is present at the various power supply outputs, as well as other aspects of the power supply's operation. A row of NORMAL LEDs is illuminated when +48V, +12V, +19V, and -19V outputs are operating. Below that is a corresponding row of UNUSUAL LEDs, one or more of which illuminates if the output is not within normal tolerance. There is also a green POWER indicator that is illuminated when power is turned on, a red THERMAL indicator that is illuminated when the power supply has overheated (and automatically shut down), and a digital indicator that displays the AC line voltage input to the power supply.

3. (Grille)

The power supply is cooled by a pair of quiet running fans that pull air through front-panel grilles and exhaust it through vents at the back. A reticulated foam element behind each grille filters the air entering the power supply.

* Cleaning The Air Filters:

The reticulated foam air filters on the front of the power supply screen cooling air as it is drawn through the unit. When the foam becomes clogged or dirty, it should be cleaned; check it periodically. Using a 3 mm allen wrench, remove the four cap screws that secure each front grille. The foam elements may now be removed and rinsed in cool water. For greasy or stubborn dirt, dip the elements in a mild solution of detergent and water, then rinse with clear water. Blot and/or air dry the elements thoroughly before returning them to the amplifier. DO NOT USE SOLVENTS TO CLEAN THE FOAM ELEMENTS.

4. DC OUTPUT (Umbilical Connector)

This locking, multi-pin connector provides the necessary DC voltages from the PW4000 power supply to the PM4000 console. The cable must be connected correctly before attempting to operate the console. See Figure 1 for the pin assignments.

CAUTION: Always make certain that the PW4000 power is turned OFF prior to connecting or disconnecting the umbilical cable at the console or at the power supply.

5. FUSES

Three main fuses and one sub fuse protect the primary and secondary portions of the PW4000 power supply. They should be replaced only with fuses of the same current rating and type (250 V Slo-Blow): See power supply specifications.

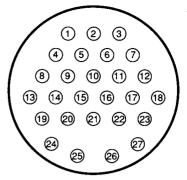
NOTE: Internal fuses in the PW4000 are also present, but should not normally blow. These are for service by qualified service personnel only.

6. (Power Cord)

This power cable connects the PW4000 to the AC power mains. A grounded (3-wire) outlet of at least 15 amperes capacity should be used.

7. LINE VOLTAGE INDICATOR (Switch)

When this slide switch is in the ON position, the front-panel digital indicator (2) will display the line voltage regardless of the position of the POWER switch (1).



CABLE END (MALE)

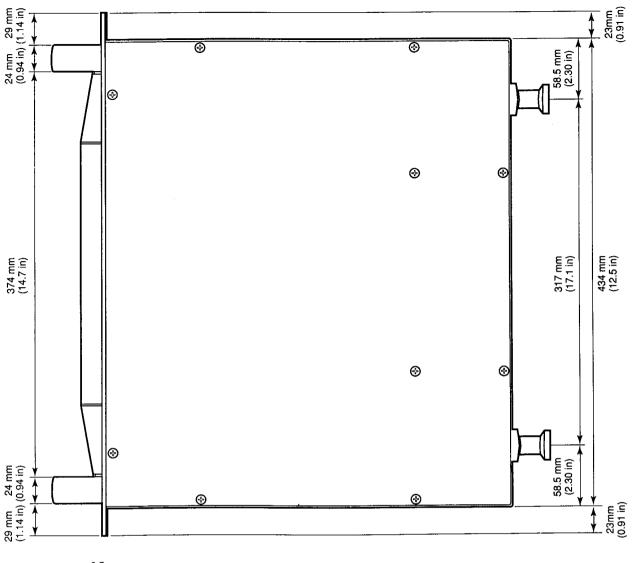
PIN Nº	FUNCTION	PIN Nº	PIN Nº FUNCTION	
1	-19V	15	5 ±19V GND	
2	-19V	16	±19V GND	
3	FRAME GND	17	+12V GND	
4	-19V	18	+12V GND	
5	-19V	19	PM CAUTION (+)	
6	FRAME GND	20	+48V	
7	FRAME GND	21	+48V GND	
8	+19V	22	+12V	
9	+19V	23	+12V	
10	±19V GND	24	PW CAUTION (-)	
11	±19V GND	25	NC	
12	+12V GND	26	NC	
13	+19V	27	+12V	
14	+19V			

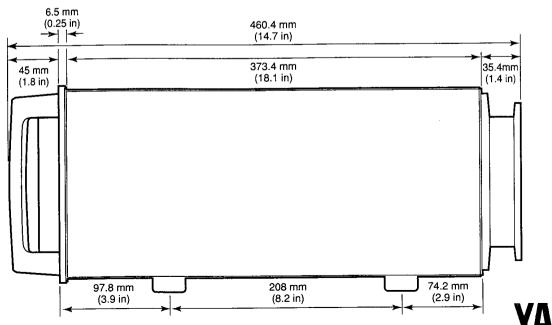
Figure 1. PW4000 Umbilical Connector Pin Assignments

Power Supply Specifications

Power Requirements	Japan	100 V, 50/60 Hz	48 Channel	1100 W
			40 Channel 32 Channel	1000 W 900 W
			24 Channel	800 W
	CSA/UL	120 V, 60 Hz	1500 VA	1250 W
	General	230/240 V, 50/60 Hz		1250 W
DC Output Voltages			± 20 V	13 A
			+ 12 V	8 A
			+48 V	0.7 A
Fuses	Japan, CSA/UL	Main (x3)	6 A	250 V
		Sub (x1)	1 A	250 V
	General	Main (x3)	T3.15 A	250 V
		Sub (x1)	T500 mA	250 V
Dimensions (W x H x D)		480.0 x 186.0 x 460.6 mm	18.8 x 7.3 x 18.1 inches	
Weight		36 kg	79.4 pounds	

Dimensions





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9206 🗖 🚱 Printed in Japan