ICOM

INSTRUCTIONS

DC POWER SUPPLY

PS-300

Thank you for purchasing the **PS-300** DC POWER SUPPLY.

Please read these instructions thoroughly before operating the PS-300.

PRECAUTIONS

- ⚠**WARNING! NEVER** apply AC voltage that exceeds the specified voltage to the PS-300's AC power cable. Excessive voltage could cause a fire or ruin the power supply.
- ⚠**WARNING!** Immediately turn the power supply OFF and remove the AC power cable if it emits an abnormal odor, sound or smoke. Contact your Icom dealer or distributor for advice.
- ⚠**CAUTION! NEVER** let metal, wire or other objects touch any internal parts through the slits of the case or terminals on the rear panel of the power supply. This may result in an electric shock.
- ⚠**CAUTION! NEVER** connect the power supply to a DC power source using reverse polarity. This will damage the power supply.
- ⚠**CAUTION! NEVER** open the top cover. There are no user adjustment parts. Opening the case may expose you to electric shock and incorrect reassembly may cause a fire hazard.
- ⚠**CAUTION! NEVER** put the power supply in any unstable place (such as on a slanted surface or vibrating area). This may cause injury to you and/or damage to the power supply.
- ⚠**CAUTION!** The socket-outlet must be near the DC power supply and must be easily accessible.
- ⚠**USE INDOORS ONLY! NEVER** expose the power supply to rain, snow or any liquids.
- **DO NOT** use or place the power supply in areas with temperatures below 0°C or above +40°C.
- **DO NOT** use chemical agents such as benzine or alcohol when cleaning, as they can damage the power supply's surfaces.
- **DO NOT** place the power supply against walls or put anything behind the power supply. This will obstruct heat dissipation.
- **KEEP** the power supply out of the reach of children.
- **USE** an AC outlet that can supply more than 840 VA capacity. **AVOID** the use of a multi-plug adaptor.

SPECIFICATIONS

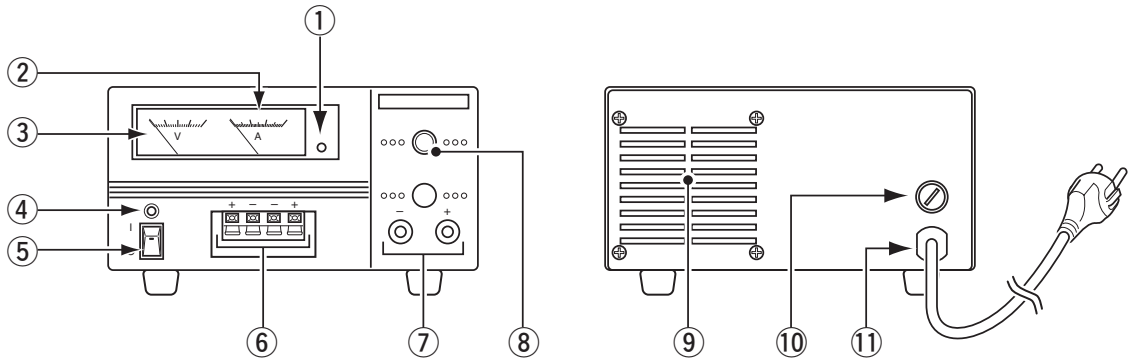
• Input voltage	: 230 V AC (50 Hz~) [EUR] 240 V AC (50 Hz~) [AUS]
• Output voltage	: 1–15 V DC
• Output current (at 13.8 V)	: 25 A Continuous, 30 A Maximum 50% duty cycle (1 min. ON/1 min. OFF)
• Ripple & Noise (at 13.8 V)	: Less than 20 mV p-p
• Load Regulation (0% to 100%)	: Less than 50 mV
• Dimensions (projections not included)	: 203(W)×110(H)×280(D) mm
• Weight (approx.)	: 9 kg
• Usable temperature range	: 0˚C to +40˚C 25 A (15 V) continuous operation at +40˚C is for 4 hours 22 A (15 V) continuous operation at +40˚C is for 8 hours 25 A (15 V) continuous operation at +25˚C is for 8 hours

CE

Versions of the PS-300 which display the "CE" symbol on the serial number comply with the essential requirements of the Low Voltage Directive (2006/95/EC) and the EMC Directive (2004/108/EC).

This compliance is based on conformity with the following harmonized standards EN61558-1:1997, EN61558-1+A1:1998, EN61558-1+A11:2003, EN61558-2-6:1997, EN55014-1:2006, EN61000-3-2:2006, EN61000-3-3:1995, EN61000-3-3+A1:2001, EN61000-3-3+A2:2005, EN55014-2:1997, EN55014-2+A1:2001.

PANEL DESCRIPTION



FRONT PANEL

① **OVERLOAD INDICATOR**
Lights red when the PS-300 is under the condition of overload or the ⊕ and ⊖ lines are shorted.

② **AMPERE METER**
Shows the driving current.

③ **VOLTMETER**
Shows the output voltage.

④ **POWER INDICATOR**
Power indicator lights green when the PS-300 is turned ON.

⑤ **POWER SWITCH**
Turns the PS-300 power ON or OFF.

⑥ **DC OUTPUTS (Max. 3 A)**
Connect DC power cables.

⑦ **DC OUTPUTS (Max. 30 A)**
Connect DC power cables.

⑧ **CONTROLLER**
Adjusts the DC output voltage within 1–15 V.

REAR PANEL

⑨ **COOLING FAN**

⑩ **FUSE HOLDER**
5 A fuse (F5AL250V) is installed.

⑪ **AC POWER CABLE**
Connects to the AC outlet.

CONNECTION AND OPERATION

① Connect the AC power cable of the PS-300 to an AC outlet.
② Turn the PS-300 ON, then adjust the suitable output voltage.
- " I " : ON (Power indicator lights green)
- "O" : OFF (Power indicator goes off)

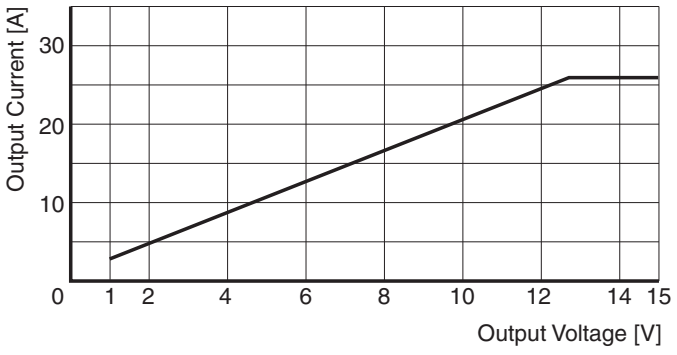
③ Turn the PS-300 OFF, and make sure the equipment's power is also OFF.
④ Connect the DC power cable to the PS-300 and the equipment's DC power input.
⑤ Turn the PS-300 ON.
⑥ Turn the equipment ON.
⑦ To turn OFF the system, turn the equipment power OFF, then the PS-300 in sequence.

OVERLOAD AND SHORT CIRCUIT PROTECTOR

The PS-300 has overload and short circuit protection circuits. When the PS-300 is under the condition of overload or the ⊕ and ⊖ lines are shorted, the PS-300 limits the output current and the overload indicator lights red. In such a case, turn OFF the PS-300, remove the source of the problem, wait several seconds, then turn it ON again.

CURRENT CAPACITY

Current capacities of the PS-300 depend on their output voltage as per the graph at right. (The graph shows typical values for reference.)



Icom Inc.
1-1-32 Kamiminami, Hirano-ku, Osaka 547-0003, Japan

Count on us!

A-6661X-1EX Printed in China