

REGULATED DC POWER SUPPLY UNIT

GSV500 GSS500 GSV1200

OPERATING INSTRUCTION

DIAMOND
ANTENNA

SAFETY PRECAUTIONS

GENERAL

- 1) Please read through this operating instruction carefully and follow the instruction to prevent from abuse or misuse. This instruction must be kept to refer anytime in need.
- 2) The GSV and GSS family is specially designed Regulated DC Power Supply Unit to use DC operated radio equipments sourcing from an AC outlet. The GSS500 provides a fixed voltage of 13.8V and the GSV500 provides variable voltages of 6V to 15V under 5A continuous operation or 6A intermittent operation. The GSV1200 provides variable voltages of 1V to 15V under 12A continuous operation and 15A intermittent operation. NO RESPONSIBILITY is extended to other than above application and/or use.

SETTING UP

- 1) Make grounding the unit to prevent from an electric shock at high voltage caused by leakage or lightnings.
- 2) DO NOT put this unit in high humid, dusty and/or sunshiny places, and must keep clear room around the heatsink panel.
- 3) DO NOT block the airconvection slits to keep efficient heat radiation.
- 4) DO NOT put this unit close to the TV sets or CRT monitors.
- 5) Couple with an AC outlet directly as sourcing via distribution cables may heat plugs and cables.
- 6) Put the unit horizontally for accurate meter readings.

CAUTION

- 1) DO NOT use for equipments require higher current input than the designed value otherwise it may damage the unit.
- 2) DO NOT use this unit for charging battery.
- 3) DO NOT use for lamps or motorized equipment which require high current input at starting and it may damage the unit.
- 4) DO NOT use the real cigar-lighter with the DC POWER OUTLET as it may damage the unit.
- 5) DO NOT replace the fuse before ceasing problems and the assigned value of fuse must be taken in place.

WARNING

The following precautions must be observed to help prevent from electric shock which may hurt you.

- 1) NEVER remove the metal cover during the unit is powered.
- 2) NEVER touch the unit with wet hands.
- 3) NEVER operate the unit which has foreign articles, such as metals, water and etc., inside of the unit. Call your dealer for check and repair.

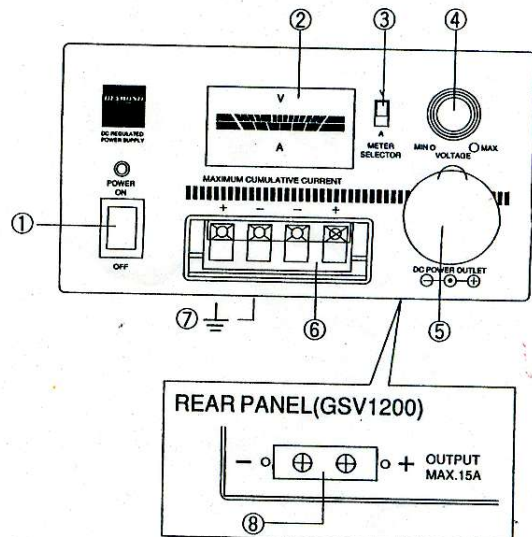
- 4) NEVER operate the damaged unit as it may output high voltage at the terminals. Call your dealer for check and repair.

- 5) NEVER put any foreign articles into the DC POWER OUTLET.

NEVER touch the heatsink on the rear panel during the unit is powered.

Touching it may burn your hands or part of your body by high temperature.

CONTROLS AND FUNCTIONS



- ① POWER SWITCH : Turning ON, the indicator lights up.
- ② METER : For Current or Voltage indication being operated.
- ③ METER SELECTOR : Switching over the METER indication to A for Current and V for Voltage respectively.
- ④ VOLTAGE CONTROLLER: To adjust the output voltage from 6V to 15V.(GSV500)

The maximum output current is limited by output voltage as per Fig.1.

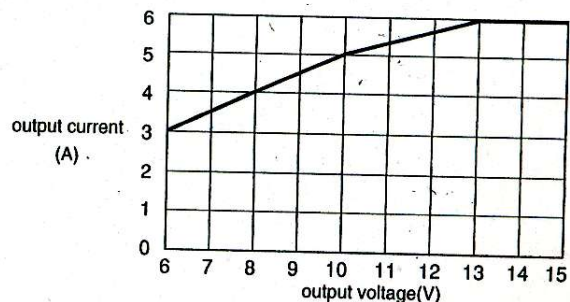


Fig. 1 OUTPUT VOLTAGE VS OUTPUT CURRENT

Or to adjust the output voltage from 1V to 15V. (GSV1200)
The maximum output current is limited by output voltage as per Fig.2.

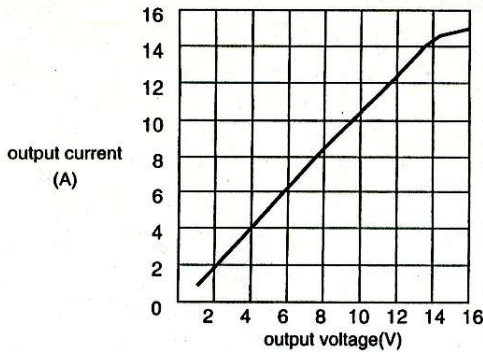


Fig. 2 OUTPUT VOLTAGE VS OUTPUT CURRENT

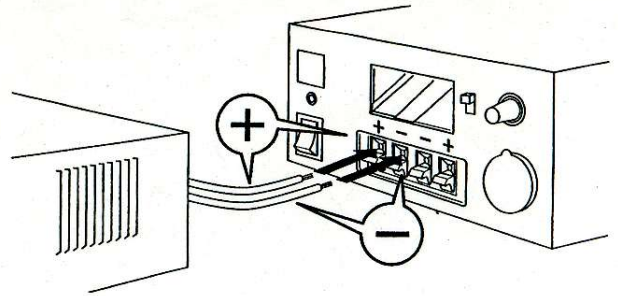
- ⑤DC POWER OUTLET : For cigar-lighter type adapter plug.(Negative ground only)
- ⑥OUTPUT TERMINAL : Two pairs of snap-in output terminal. Red is for (+)positive and Black is for (-)negative.
- ⑦GND. TERMINAL : This is located on the bottom case. Connect this terminal to the ground with a thick wire (not included).
- ⑧OUTPUT TERMINAL : This is located on the rear panel providing upto 15A.(GSV1200)
This output to be counted as the accumulated maximum current.

■ CONNECTION AND OPERATION

1. Turn Off the unit.
2. Be sure an AC input voltage fits with the unit labeled input voltage and plug it into the AC outlet.
3. Turn ON the unit and adjust an output voltage to match with the input voltage of equipments to be powered. (GSV500/GSV1200)
4. Turn OFF the equipments and connect red (+) output ter-

minial of the unit to the positive polarity input of the equipment to be powered.

5. Connect black (-) output terminal of the unit to the negative polarity input of the equipment to be powered.



6. Turn ON the unit and turn ON the equipment to be powered.
7. When an operation is over, turn OFF the equipment being powered first. Then turn OFF the unit.

■ FEATURES

1. Overload Protection
Current foldback circuit is adopted to prevent the unit from overload.
Note: When the protection circuit works, disconnect the equipment.
Keeping the case may damage the unit or even may hurt you.
2. High RFI Stability
Designed for high protection circuitry against RFI(Radio Frequency Interference) provides you a stable operation.
3. Variable Output Voltage (GSV500/GSV1200)
The variable range of output voltages from 6V to 15V(GSV500) or 1V to 15V(GSV1200), enables good fits with various kinds of handheld radios.
4. DC Power Outlet
A cigar-lighter type adapter socket is prepared for easy connection.

■ SPECIFICATIONS

MODEL	GSV500	GSS500	GSV1200
INPUT VOLTAGE	100V, 110V OR 220V		
OUTPUT VOLTAGE	DC6V - 15V	DC13.8V FIXED	DC1V - 15V
OUTPUT CURRENT(13.8V)	5A CONTINUOUS, 8 HOURS 6A INTERMIT. (1min.ON/OFF)		12A CONT. 8 HOURS 15A INT.(1m. ON/OFF)
LOAD REGULATION	LESS THAN 2%		
OVERLOAD PROTECTION	CURRENT FOLDBACK at 6.3A, 13.8V		C.F. at 17A, 13.8V,
RIPPLE VOLTAGE	10mVp-p at 13.8V, 5A		3mVp-p at 13.8V, 12A
COOLING SYSTEM	AIR CONVECTION		
CIRCUIT SYSTEM	LINEAR SERIES		
FUSE	1A/220V OR 2A/110V		2A/220V OR 4A/110V
WEIGHT	3.0KGS		5.8KGS
DIMENSION (W)X(H)X(D)	160 X 92 X 165 mm		160 X 100 X 235 mm

* Specifications are subject to change without prior notice..

■ NOTE

CE version for European countries is limited to operate for 7A under CE protocol.

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