DC - DC CONVERTER

DD105 DD107

OPERATING INSTRUCTION

SAFETY PRECAUTIONS GENERAL

- 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 DD-105 and the DD107 are specially designed DC-DC converter to use DC13.8V operated radio equipment sourcing from DC24V outlet providing 5A continuous operation (DD105) or 7A continuous operation (DD107).

Note: Continuous operation to be 8(eight) hours under 24V input at 25°C.

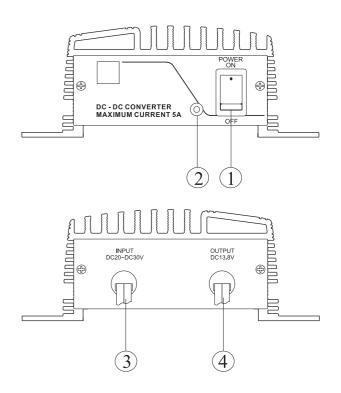
NO RESPONSIBILITY is extended to other than above applications and/or use.

- 3) Over Voltage Protection When DC16V ±0.5V is appeared at the output terminal, the input voltage will be automatically shut
- down to protect the unit.
 4) Over Current Protection
 When the output current comes over the limitation, the output voltage and current will be automatically reduced to protect the unit.

■ CAUTION

- 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.
- DO NOT use for lamps or motorized equipment which require high current input at starting as it may damage the unit.
- **4) DO NOT** replace the fuse before ceasing problems and the assigned value of fuse must be taken in place.
- 5) DO NOT feed input voltage other than DC20V DC30V as it may damage the unit. The input voltages specified here are for the purpose of operationble application only.
- 6) DO NOT start unit while the radio is being transmitted as it may damage the unit.
- **7) NEVER** touch the heatsink panel during the unit is powered. Touching it may burn your hands or part of your body by high temperature.
- 8) NO DC24V output can come out from the input when feeding DC12V to the output.
- 9) BE SURE wiring connections otherwise it may damage the unit. While cable is for INPUT(+) and Black cable is for INPUT(-). Red cable is for OUTPUT(+) and Black cable is for OUTPUT(-).

CONTROLS AND FUNCTIONS



(1) POWER SWITCH

Turning ON, the indicator lights up.

(2) OPERATE LED

Light-up when unit is operate.

(3) INPUT CABLES

White is for (+) positive and Black is for (-) negative directly from the battery.

(4) OUTPUT CABLES

Red is for (+) positive and Black is for (-) negative.

■ CONNECTION AND OPERATION

- 1) Turn OFF the unit.
- 2) Connect the input white cable to (+) and the input Black cable to (-) of 24V battery firmly.
- 3) Turn OFF the equipments and connect Red (+) output cable of the unit to the positive polarity input of the equipment to be powered.
- **4)** Connect Black (-) output cable of the unit to the negative polarity input of the equipment to be powered.
- Turning ON the unit, LED lights up yellow, then turn ON the equipment to be powered.
- 6) When an operation is over, turn OFF the equipment being powered first. Then trun OFF the unit.

■ FEATURES

1) Overload Protection

Over Voltage Protection and Over Current Protection circuitry are adopted to prevent from overload.

Note: When the protection circuit works, disconnect the equipment. Keeping the may damage the unit or even may hurt you.

2) High RFI Stability

Designed for high protection circuitry against RFI (Radio Frequency Interference) provided you a stable operation. These units comply CE EMC Directive 89/336/EEC.

■ SPECIFICATIONS

	DD105	DD107
INPUT VOLTAGE	DC 20V - DC30V	
OUTPUT VOLTAGE	DC13.8V ±0.5V	
O.V.P. SETTING	DC16V ±0.5V	
OUTPUT CURRENT	5A FOR 8 HOURS UNDER	7A FOR 8 HOURS UNDER
(CONTINUOUS)	DC24V INPUT AT 25°C	DC24V INPUT AT 25°C
CURRENT LIMITING	6 ±0.5A	9 ±0.5A
STANDBY CURRENT	70mA at no loading	
FUSE	7A	10A
COOLING SYSTEM	Air Convection	
DIMENSIONS	125(W) x 45(H) x 100(D)	125(W) x 45(H) x 120(D)
WEIGHT	0.55kg	0.62kg

^{*} Specifications are subjust to change with piror notice.