

FEATURES:

- Universal Input 90~264VAC
- Efficiency at 75% Typical
- Protection: Short Circuit /Overload/Over Voltage
- Fully Encapsulated Plastic Case
- Internal Input Filter

Specifications typical at TA=25°C, nominal input voltage and rated output current unless otherwise specified

| Part Number | Output Wattage | Output Voltage | Output Current | | Ripple & Noise(note1) | Efficiency |
|---------------------|----------------|----------------|----------------|-----------|-----------------------|------------|
| | (W) | (V) | (mA)(min) | (mA)(max) | (mV) max | %(TYP) |
| GA010-D12C01 | 12 | Vo=±12.0 | 0 | ±500 | 150 | 75 |

Input Specifications

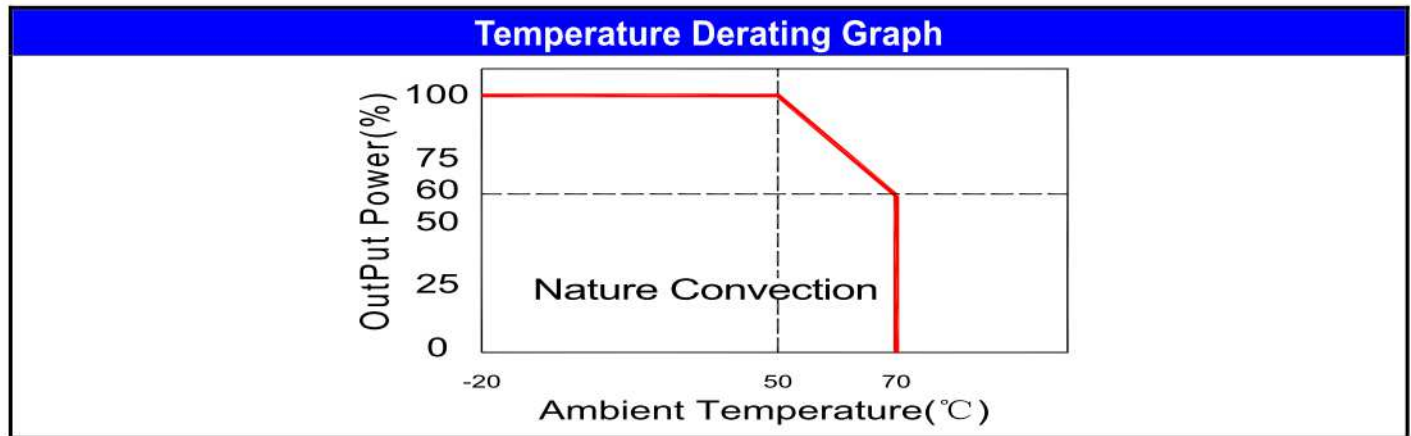
| Parameters | Conditions | Min | Typ | Max | Units |
|---------------------|--------------------------------------|-------|---------|-----|-------|
| Rated input voltage | Vo,lo nom | | 100-240 | | Vac |
| Voltage Range | Vo,lo nom | AC in | 90 | 264 | Vac |
| | | DC in | 120 | 370 | Vdc |
| Frequency | | 47 | 50/60 | 63 | Hz |
| Input Current | Vo,lo nom | | | 0.3 | A |
| Inrush Current | At 115Vac | | | 20 | A |
| | At 230Vac | | | 40 | A |
| Input Fuse | VDE/UL/CCC FUSE 2.5A/250V(Slow blow) | | | | |

Output Specifications

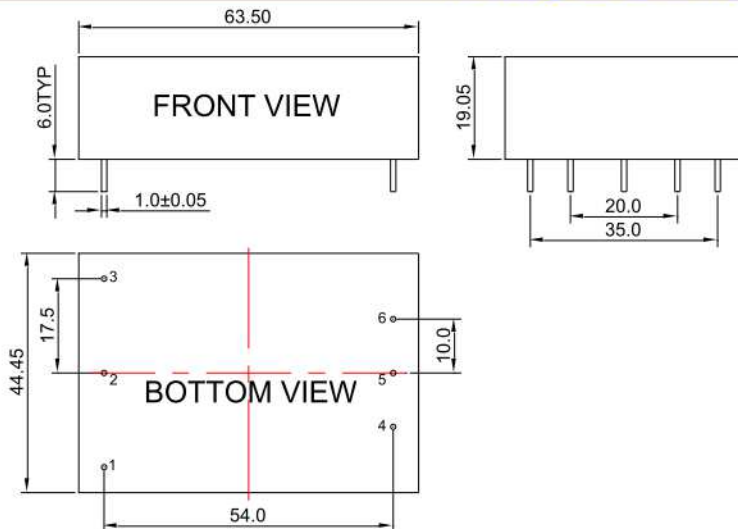
| Parameters | Conditions | Min | Typ | Max | Units |
|-------------------------|------------------------------|-----|--|-------|-------|
| Output Voltage Accuracy | Vi nom,lo nom | Vo | | ±5 | % |
| Minimum Load | each output | | 20 | | |
| Line Regulation | lo nom,Vi min...Vi max | | | ±1 | % |
| Load Regulation | Vi nom, lo min...lo nom | Vo | | ±5 | % |
| Transient Recovery time | Vi nom,lo nom = ←→0.5 lo nom | | | 1,000 | uS |
| Protection | Overload | | Above 110% rated output power Protection type: Recovers automatically after fault condition is removed | | |
| | Over Voltage | | 120%-150% rated output Voltage Protection type: Zener diode clamp | | |
| | Short circuit | | Recovers automatically after fault condition is removed | | |

Note. 1. Ripple & noise is measured by using 20 MHz bandwidth, measured with a 47uf paralleled with a high-frequency 0.47uf capacitor across each output by full load.

| General Specifications | | | | | |
|----------------------------|----------------------------|------------------|-----|-----|-------|
| Parameters | Conditions | Min | Typ | Max | Units |
| Switching Frequency | Vi nom,lo nom | | 65 | | KHz |
| Isolation Voltage | Input / Output | 3KVac/ 5mA/5Secs | | | |
| Isolation Resistance | Input / Output,@500 Vdc | 100 | | | MΩ |
| Operating Temperature | Operating at Vi nom,lo nom | -20 | | +70 | °C |
| Derating | Vi nom,lo nom+51 to 71°C | | | 2 | %/°C |
| Storage Temperature | Non Operational | -40 | | +85 | °C |
| Relative Humidity@40°C | Vi nom,lo nom | | | 95 | % RH |
| Safety Standards | Design refer to EN62368-1 | | | | |
| EMI Conduction & Radiation | Compliance to EN55022 | | | | |
| EMS Immunity | Compliance to EN55024 | | | | |
| Dimension | L63.50x W44.45 x H19.05 | | | | mm |
| Cooling | Free air convection | | | | |



Markings and dimensions

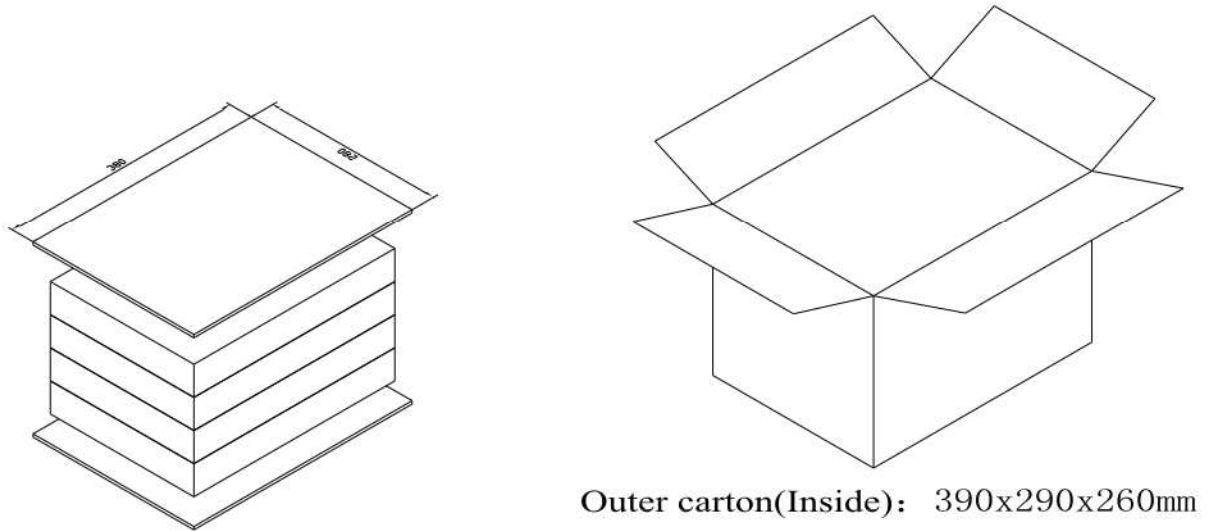
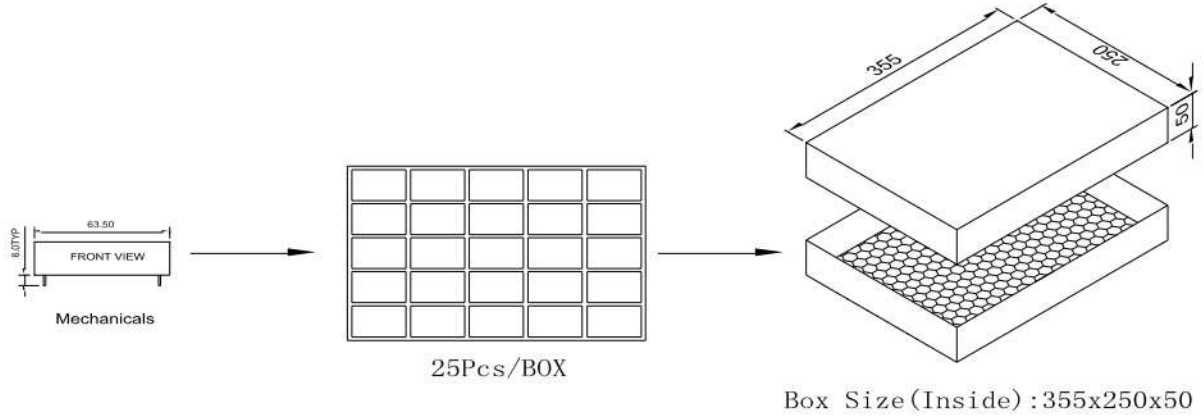


| PIN | Model |
|-----|-------|
| 1 | Dual |
| 2 | FG |
| 3 | ACN |
| 4 | ACL |
| 5 | -Vo |
| 6 | COM |
| 6 | +Vo |

UNIT: mm Unless otherwise specified, all tolerances are ±0.50

12Watt,Dual Output,AC-DC Power Module Converter

- 1. Weight:100grams/pcs
- 2. outer carton unit : 100pcs/box
- 3. Weight:11.0kg per carton



UNIT:mm