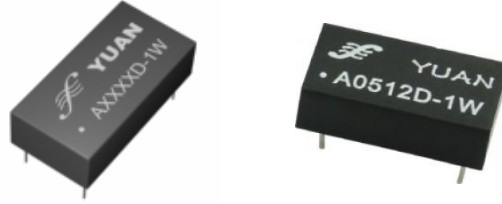


- RATED 1W OUTPUT
- HIGH POWER DENSITY
- S:7PIN SIP D:14PIN DIP PACKAGE
- DUAL OUTPUT
- INDUSTRIAL STANDARD PIN-OUT
- NO HEAT SINK REQUIRED
- 1KVAC ISOLATION
- FIXED INPUT
- UNREGULATED OUTPUT
- ISO9001 CERTIFIED



ELECTRICAL SPECIFICATIONS

All specifications tested typically @ 25°C, humidity<75%, nominal input and rated output unless otherwise noted.

OUTPUT SPECIFICATIONS

| Items: | Testing condition | Min | Typ | Max |
|--------------------------|------------------------------|-----|--------|------------|
| Output accuracy | At full load and nominal Vin | | | ±5% |
| Output power | | | | 1W |
| Line voltage regulation | For Vin change of 1% | | ±1.2% | |
| Load voltage regulation | From 20% to full load | | ±8% | |
| Ripple and noise | 20MHz bandwidth | | | 75 mV p-p |
| Temperature drift | | | | ±0.02 %/°C |
| Minimum load | | | | 10% |
| Switching frequency | | | 125KHz | |
| Short circuit protection | Momentary(<1s) | | | |

INPUT SPECIFICATIONS

| Items: | Testing condition | Min | Typ | Max |
|---------------------|-------------------|---------------------|------|-----|
| Input voltage range | | ±10% | | |
| Leak Current | | <1mA | | |
| Resistance | | 10 ⁹ ohm | | |
| Capacitance | | | 60pF | |

COMMON SPECIFICATIONS

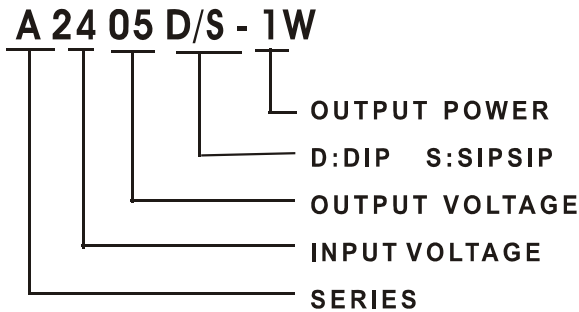
| Items | | Min | Typ. | Max |
|-----------------------------|------------------------------|-------|-----------------|--------|
| Operating temperature range | | -40°C | | +85°C |
| Storage temperature range | | -55°C | | +125°C |
| Humidity | No-compress | | | 90% |
| Cooling | Free Air Convection | | | |
| Isolation voltage (VAC) | Input to Output | | 1,000 | |
| Isolation resistance (ohms) | | | 10 ⁹ | |
| Isolation capacitance (pF) | | | | 60 |
| Efficiency (%) | See Product List | 70 | | 85 |
| Case material | Non-conductive black plastic | | | |

| | |
|----------------------------------|--|
| Potting material | Epoxy Resin UL94-V0 |
| Packing material | Tube |
| Dimension (mm / inch) (L*W*H) | SIP: 19.5*6.00*10 (0.76*0.24*0.37) DIP: 20.4*10*8.2(0.80*0.39*0.32) |
| Weight (g) | 2~3g |
| MTBF (Hrs) | >1,000,000 |

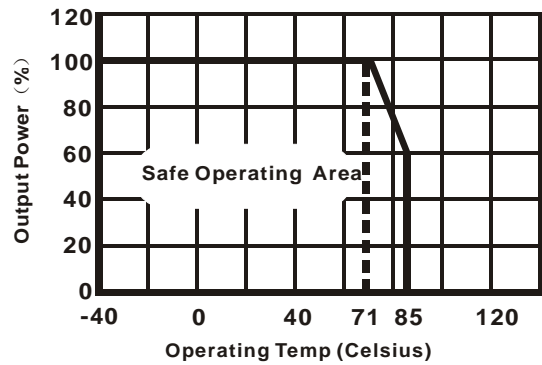
PRODUCT LIST

| Part Number | Input Voltage (VDC) | | | Output | | Efficiency (%, Typ.) | Package | Capacitor Load Max (uF) |
|-------------|---------------------|---------|------|--------------|---------------|-------------------------|---------|----------------------------|
| | Range | Nominal | Max. | Current (mA) | Voltage (VDC) | | | |
| A0505S/D-1W | 4.5-5.5 | 5 | 5.5 | ±100 | ±5 | 71 | SIP/DIP | 4.7 |
| A0512S/D-1W | | 5 | 5.5 | ±42 | ±12 | 80 | SIP/DIP | 1 |
| A0515S/D-1W | | 5 | 5.5 | ±34 | ±15 | 80 | SIP/DIP | 0.47 |
| A1205S/D-1W | 10.8-13.2 | 12 | 13.2 | ±100 | ±5 | 80 | SIP/DIP | 4.7 |
| A1212S/D-1W | | 12 | 13.2 | ±42 | ±12 | 78 | SIP/DIP | 1 |
| A2403S/D-1W | 21.6-26.4 | 24 | 26.4 | ±150 | ±3.3 | 75 | SIP/DIP | 4.7 |
| A2405S/D-1W | | 24 | 26.4 | ±100 | ±5 | 74 | SIP/DIP | 4.7 |
| A2412S/D-1W | | 24 | 26.4 | ±42 | ±12 | 76 | SIP/DIP | 1 |

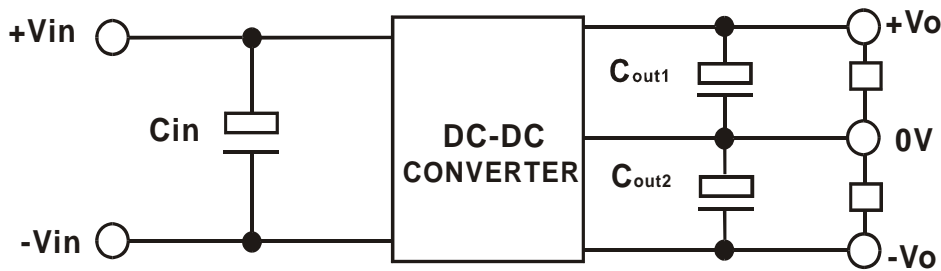
NOMENCLATURE



TEMPERATURE DERATING GRAPH

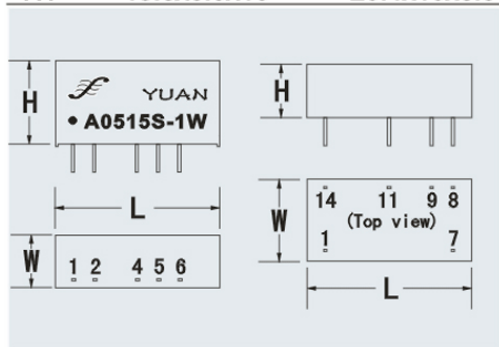


TYPICAL CONNECTION



OUTLINE DIMENSION

| SIZE | SIP(LxWxH) | DIP(LxWxH) |
|------|-------------|-------------|
| 1W | 19.6x6.0x10 | 20.4x10x6.5 |



| PKG. | Vin | GND | -Vo | 0V | +Vo |
|------|-----|-----|-----|----|-----|
| AS | 1 | 2 | 4 | 5 | 6 |
| AD | 14 | 1 | 11 | 8 | 9 |

PINS DESCRIPTION

| SIP | Connection | | DIP |
|-----|------------|--------|-----|
| 1 | +Vin | Input | 14 |
| 2 | GND | Input | 1 |
| 4 | -Vo | Output | 11 |
| 5 | 0V | Common | 8 |
| 6 | +Vo | Output | 9 |
| | | NC | 7 |

PIN 7 can not connect any external circuit.

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