

4000 Series

10 WATTS - 33KV DC/DC SINGLE OUTPUT

FEATURES

- 0 to 100% adjustability.
- Voltage programmable.
- Voltage monitor.
- Remote on/off control.
- EMI/RFI shielding.
- Short circuit, reverse polarity protection.
- Arc protection.



SPECIFICATIONS

| INPUT | |
|-------------------------|--|
| Voltage | +24Vdc (+20% to -5%). |
| OUTPUT | |
| Power | 10W. |
| Voltage | See table. |
| Current | See table. |
| Ripple | See table. |
| Analog control | 0 to 10 Volts = 0 to 100% output. |
| Voltage monitor | 0 to 10 Volts = 0 to 100% output.. |
| On/Off control | On = 0 Volts or N.C. Off = 5 Volts |
| Reference output | 10 Volts (±0.5%). |
| ENVIRONMENTAL | |
| Operating temperature | -10°C to +60°C. |
| GENERAL | |
| Dimensions | 104 x 78.7 x 35.56 mm (4010 to 4200). 104 x 91.4 x 35.56 mm (4300 to 4330). |
| Weight | 675g. |
| Packaging | Fully encapsulated. |
| Case material | Black anodised aluminum. |
| Input connector | Molex 09-50-3071 (supplied). |
| Molex pins | 08-50-0106 (supplied). |
| High voltage leads | 30KV 22AWG (4010 to 4200). 40KV 20AWG (4300 to 4330). |
| OPTIONS | |
| Negative output voltage | Put "N" after model (eg 4300N). |

SELECTION TABLES

| MODEL NUMBER | OUTPUT | OUTPUT*1 | |
|--------------|--------------|----------|--------|
| | VOLTAGE | CURRENT | RIPPLE |
| 4010 | 0 to 1,000V | 10mA | 0.1% |
| 4020 | 0 to 2,000V | 5mA | 0.1% |
| 4030 | 0 to 3,000V | 3.3mA | 0.2% |
| 4050 | 0 to 5,000V | 2mA | 0.1% |
| 4070 | 0 to 7,000V | 1.4mA | 0.1% |
| 4100 | 0 to 10,000V | 1mA | 0.1% |
| 4120 | 0 to 12,000V | 0.8mA | 0.1% |
| 4150 | 0 to 15,000V | 0.67mA | 0.1% |
| 4200 | 0 to 20,000V | 0.5mA | 0.2% |
| 4300*2 | 0 to 30,000V | 0.33mA | 0.4% |
| 4330*2 | 0 to 33,000V | 0.30mA | 0.2% |

- NOTE:** 1. At maximum rated output voltage.
2. No voltage monitor

| PIN# | FUNCTION |
|------|--------------------------|
| 1 | On/Off control |
| 2 | Ground/case |
| 3 | +24Volt input |
| 4 | 10 Volt reference output |
| 5 | Programming voltage |
| 6 | Internal potentiometer |
| 7 | Voltage monitor |

| PROGRAMMING | |
|-------------|--|
| VOLTAGE | Apply 0-10V to pin 5 for 0-100% output. |
| RESISTANCE | Connect potentiometer to pin 4 (reference voltage), connect wiper arm to pin 5, and connect potentiometer to the ground. |
| MANUAL | Connect pin 6 to pin 5, turn front panel pot for voltage adjust. |