

3KW STEP DOWN DC/DC Power Supply

POWER SUPPLY

OIL&GAS APPLICATION

HIGH TEMPERATURE

PRODUCT OVERVIEW

High power DC/DC converter with wide input voltage range up to 1200V. It provides one high power output (up to 3kW) and one low power output (up to 20W) with regulated output voltage.



FEATURES

- Supply voltage: 200V to 1200V
- High power output: 600V/5A
- Low power output: 24V/0.83A
- Full digital control with monitoring and configuration via isolated CAN bus
- Maximum operating temp: 177°C (350°F)
- Vibration: 20 Grms
- Implemented UVLO/OVLO and overcurrent protection

VERSIONS

| | Output Power | Output Voltage |
|------------------|--------------|----------------|
| NP-55-1200-600-5 | 3kW/20W | 600V/24V |

PERFORMANCES

- High power output:
 - Output voltage: 600V or $V_{in}-10V$ for $V_{in}<600V$.
 - Output current: 5A max.
 - Voltage ripple: <2%
 - Protection: Over-voltage and overcurrent.
- Low power output:
 - Output voltage: 24V
 - Output current: 0.83A max.
 - Voltage ripple: <2%
 - Protection: Overcurrent

DIMENSIONS

| Units | LxWxH |
|--------|--------------------|
| mm | 600 x 55 x 25 |
| inches | 23.6 x 2.16 x 0.98 |

CAN BUS

- Protocol: Watt CAN protocol
- Can baud rate: 1 Mbit/s

CUSTOMIZATION OPTIONS

- Other form factor on demand
- Custom Data logging

BLOCK DIAGRAM

