

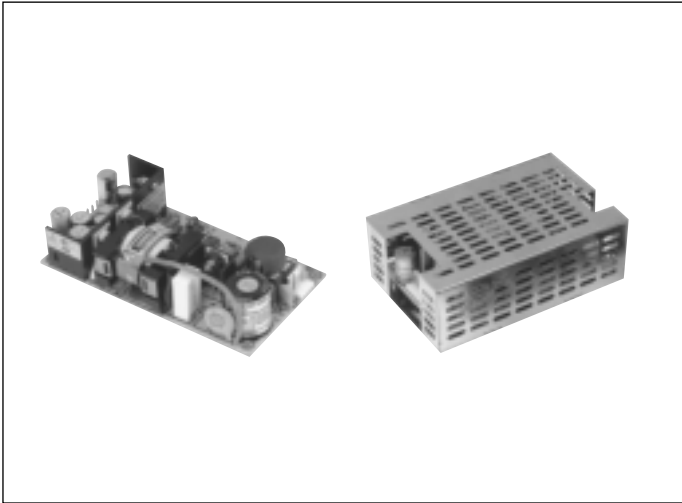
DC/DC Converters

XPiQ inc.

Intelligent Design Quality Product



40 Watts PD40 Series



- Low Cost
- 100% Burn-In
- Small Size, Light Weight
- Three Wide Input Voltage Ranges
10-30 VDC, 20-60 VDC, 30-90 VDC
- Overvoltage Protection
- Overcurrent Protection

Specification

All specifications typical at nominal line, full load and 25°C

Input

- | | |
|----------------------|--|
| <i>Input Voltage</i> | <ul style="list-style-type: none"> • 10 to 30 VDC
(PD40 "L" series) • 20 to 60 VDC
(PD40 "M" series) • 30 to 90 VDC
(PD40 "H" series) |
| <i>Input Current</i> | <ul style="list-style-type: none"> • 2.5A (rms) for 24 VDC • 1.3A (rms) for 48 VDC • 0.84A (rms) for 72 VDC |

Output

- | | |
|-------------------------------------|---|
| <i>Output Voltage/
Current</i> | <ul style="list-style-type: none"> • See rating chart |
| <i>Ripple</i> | <ul style="list-style-type: none"> • 1% peak to peak maximum |
| <i>Overvoltage
Protection</i> | <ul style="list-style-type: none"> • Provided on output #1 only,
set at 112-132% of its nominal
output voltage |
| <i>Overcurrent
Protection:</i> | <ul style="list-style-type: none"> • All outputs protected in short
circuit conditions |
| <i>Temperature
Coefficient:</i> | <ul style="list-style-type: none"> • All outputs $\pm 0.04\%/^{\circ}\text{C}$
maximum |

General

- | | |
|--------------------------|---|
| <i>Efficiency</i> | <ul style="list-style-type: none"> • 65% minimum |
| <i>Hold-up time</i> | <ul style="list-style-type: none"> • 10 msec |
| <i>Line Regulation</i> | <ul style="list-style-type: none"> • $\pm 0.5\%$ max |
| <i>Isolation Voltage</i> | <ul style="list-style-type: none"> • 1000 VDC from input to output |

Environmental

- | | |
|----------------------------------|---|
| <i>Operating
Temperature</i> | <ul style="list-style-type: none"> • 0°C to +70°C* |
| <i>Storage
Temperature</i> | <ul style="list-style-type: none"> • -40°C to +85°C |
| <i>MTBF</i> | <ul style="list-style-type: none"> • 100,000 hours |
| <i>Weight</i> | <ul style="list-style-type: none"> • 300 grams - PCB • 500 grams - enclosed |

* Derate linearly from 100% load at 50°C to 50% load at 70°C

