

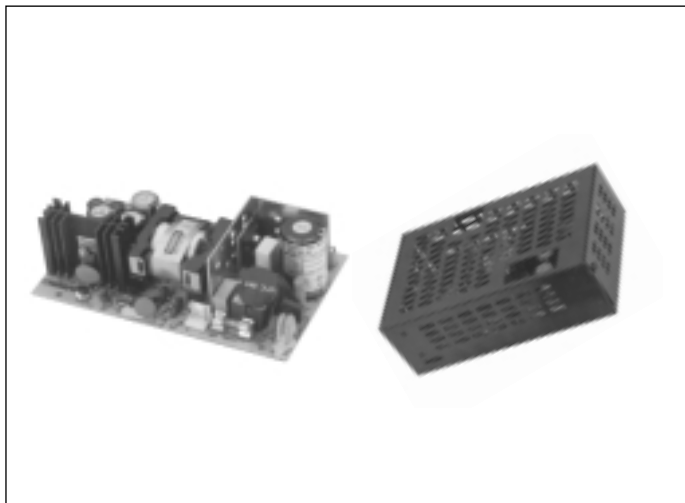
DC/DC Converters

XPiQ inc.

Intelligent Design Quality Product



65 Watts
PD65 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

- | | |
|---------------|--|
| Input Voltage | <ul style="list-style-type: none"> 10 to 30 VDC (PD65 "L" series) 20 to 60 VDC (PD65 "M" series) 30 to 90 VDC (PD65 "H" series) |
| Input Current | <ul style="list-style-type: none"> 4.1A (rms) for 24 VDC 2.1A (rms) for 48 VDC 1.5A (rms) for 72 VDC |

Output

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

General

- | | |
|-------------------|---|
| Efficiency | <ul style="list-style-type: none"> 65% - 80% |
| Hold-up time | <ul style="list-style-type: none"> 10 msec |
| Line Regulation | <ul style="list-style-type: none"> $\pm 0.5\%$ max. |
| Isolation Voltage | <ul style="list-style-type: none"> 1000 VDC from input to output |

Environmental

- | | |
|-----------------------|---|
| Operating Temperature | <ul style="list-style-type: none"> 0°C to +70°C* |
| Storage Temperature | <ul style="list-style-type: none"> -40°C to +85°C |
| MTBF | <ul style="list-style-type: none"> 100,000 hours |
| Weight | <ul style="list-style-type: none"> 380 grams - PCB 640 grams - enclosed |

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

