

ETSI and Bellcore Compliant

36 to 75VDC Input Range

Common Package for AC or DC Input

Meets Worldwide Agency Requirements

Low Profile

Remote On/Off

Input and Output DC Good Signals

3.3V Outputs

Output Surge Current Capability

Remote Sensing

Lambda's PFD Series is designed specifically for telecommunications equipment. They provide multiple output configurations with the industry's widest operating input range (36-75VDC), ensuring worldwide operation through worst case input power sags and surges.

The PFD Series is designed with standard features such as current sharing, fan fail detection and input/output signals to provide enhanced system flexibility, reliability and fault tolerant operation. Lambda's PFD Series is available in 750W and 1000W packages with a variety of output combinations.

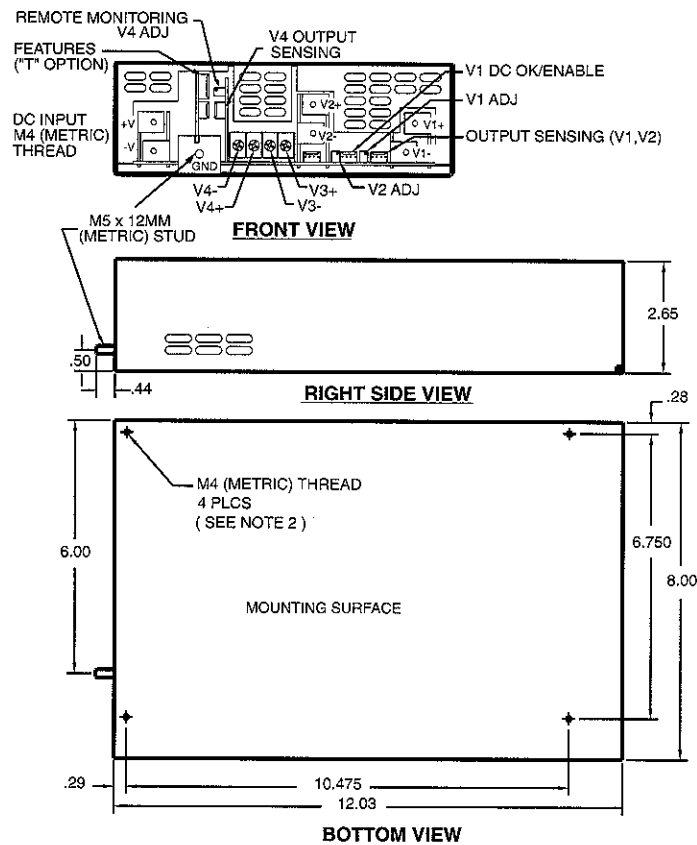
The PFD Series is also available in an AC input version in the same package size, which gives system designers the ability to design a single mechanical platform for applications requiring both AC and DC input power.

Similar products		Page
RP	AC Input	54
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DC Input	36-75VDC.						
Efficiency	75% typical.						
Input Surge Protection	IEC1000/IEC801-4 (Level 5), -5 (Level 3), EN61000-4 (-2,-3,-4,-5,-6), IEC1000-4 (-2,-3,-4,-5,-6), IEC801- (-2,-3,-4,-5,-6).						
Reverse Input Protection ...	All models are protected against damage from reverse voltage.						
Inrush Current Limiting	PFD075X – 80A. PFD100X – 80A. Meets ETS300 386-1 (ETSI).						
Surge Current Capability ...	Output 2 can provide a surge current capability equal to three times the rated output current for up to one second, then derating exponentially to steady state value after 10 seconds. The maximum total output power must not be exceeded.						
EMI	Conducted and radiated EMI conforms to EN55022, Curve A; FCC Docket 20870 Part 15 Subpart B, Class A; ETS300 386-1 Par 7.2; Bellcore TR-NWT-001089.						
DC Output Controls	A single turn potentiometer is provided for adjustment over the entire voltage range.						
Remote Programming Voltage	Volt per volt on outputs 1, 2 and 4. Output 3 tracks output 2.						
Line Regulation	1.0% for line variations from 36 to 75VDC.						
Load Regulation	1.0% for load variations from 10% load to full load and from full load to 10% load on output 1. 5.0% for outputs 2, 3 and 4. 10% pre-load required on output 2 for regulation of all outputs.						
Ripple and Noise	1.0% of Vout pk-pk.						
Redundant Operation	Redundant operation achieved through external diodes on all outputs.						
Overcurrent Protection	Internal circuitry limits all output currents to a safe preset level in the event of an overload or short circuit condition. Upon removal of short or overload condition, normal operation resumes automatically.						
Cooling	All models are forced air cooled via integral fans.						
Operating Temperature Range	0°C to +50°C continuous operation. Derate output power linearly from 50% up to 70°C operation.						
Storage Temperature	-40°C to +85°C.						
Temperature Coefficient	0.03% per °C.						
Isolation	Input to Output – 1500VDC. Input to Chassis – 1000VDC. Output to Chassis – 500VDC.						
Output Good Signal	Conductance signal from uncommitted opto coupler indicates DC output 1 is within 90% of Vo nominal.						
Input Good Signal	Conductance signal from uncommitted opto coupler indicates DC input is above 40.8VDC.						
Fan Good Signal	Conductance signal from uncommitted opto coupler indicates fan operation.						
Remote On/Off	Contact closure from remote terminal to -S on output 1 shuts down all outputs of the power supply. Open contact or TTL high signal on remote terminal enables unit.						
Remote Sensing	Internal sensing allows for remote sensing on outputs 1 and 4(5V Option B). Remote sensing allows for 0.75V line drop on +V and 0.25V line drop on -V.						
Resistive Programming	1000 ohms per volt on outputs 1, 2 and 4. Output 3 tracks output 2.						
Thermal Protection	Internal circuitry protects the power supply against fan failure or excessive ambient temperature.						
Safety Agency Approval	UL1950, VDE/EN60950, CSA234M90 and CE Mark (LUD).						
Options	<table> <tr> <th>Options</th><th>Description</th></tr> <tr> <td>N</td><td>VME Option.</td></tr> <tr> <td>T</td><td>Fully featured Option.</td></tr> </table>	Options	Description	N	VME Option.	T	Fully featured Option.
Options	Description						
N	VME Option.						
T	Fully featured Option.						
Warranty	1 year.						

POWER(W)	OUTPUT 1	OUTPUT 2	OUTPUT 3	OUTPUT 4	MODEL
Full Featured Quad Outputs					
750	+3.3V@120A	+12V@18A	-12V@7A	+5V@20A	PFD0753-4BH-T
750	+3.3V@120A	+12V@18A	-12V@7A	+12V@10A	PFD0753-4CH-T
750	+3.3V@120A	+12V@18A	-12V@7A	+24V@5A	PFD0753-4DH-T
750	+3.3V@120A	+12V@18A	-12V@7A	+48V@3A	PFD0753-4EH-T
750	+5V@120A	+12V@18A	-12V@7A	+5V@20A	PFD0755-4BH-T
750	+5V@120A	+12V@18A	-12V@7A	+12V@10A	PFD0755-4CH-T
750	+5V@120A	+12V@18A	-12V@7A	+24V@5A	PFD0755-4DH-T
750	+5V@120A	+12V@18A	-12V@7A	+48V@3A	PFD0755-4EH-T
1000	+3.3V@160A	+12V@24A	-12V@10A	+5V@20A	PFD1003-4BH-T
1000	+3.3V@160A	+12V@24A	-12V@10A	+12V@12A	PFD1003-4CH-T
1000	+3.3V@160A	+12V@24A	-12V@10A	+24V@6A	PFD1003-4DH-T
1000	+3.3V@160A	+12V@24A	-12V@10A	+48V@3A	PFD1003-4EH-T
1000	+5V@160A	+12V@24A	-12V@10A	+5V@20A	PFD1005-4BH-T
1000	+5V@160A	+12V@24A	-12V@10A	+12V@12A	PFD1005-4CH-T
1000	+5V@160A	+12V@24A	-12V@10A	+24V@6A	PFD1005-4DH-T
1000	+5V@160A	+12V@24A	-12V@10A	+48V@3A	PFD1005-4EH-T
Standard Quad Outputs					
750	+3.3V@120A	+12V@18A	-12V@7A	+5V@20A	PFD0753-4BH-Z
750	+3.3V@120A	+12V@18A	-12V@7A	+12V@10A	PFD0753-4CH-Z
750	+3.3V@120A	+12V@18A	-12V@7A	+24V@5A	PFD0753-4DH-Z
750	+3.3V@120A	+12V@18A	-12V@7A	+48V@3A	PFD0753-4EH-Z
750	+5V@120A	+12V@18A	-12V@7A	+5V@20A	PFD0755-4BH-Z
750	+5V@120A	+12V@18A	-12V@7A	+12V@10A	PFD0755-4CH-Z
750	+5V@120A	+12V@18A	-12V@7A	+24V@5A	PFD0755-4DH-Z
750	+5V@120A	+12V@18A	-12V@7A	+48V@3A	PFD0755-4EH-Z
1000	+3.3V@160A	+12V@24A	-12V@10A	+5V@20A	PFD1003-4BH-Z
1000	+3.3V@160A	+12V@24A	-12V@10A	+12V@12A	PFD1003-4CH-Z
1000	+3.3V@160A	+12V@24A	-12V@10A	+24V@6A	PFD1003-4DH-Z
1000	+3.3V@160A	+12V@24A	-12V@10A	+48V@3A	PFD1003-4EH-Z
1000	+5V@160A	+12V@24A	-12V@10A	+5V@20A	PFD1005-4BH-Z
1000	+5V@160A	+12V@24A	-12V@10A	+12V@12A	PFD1005-4CH-Z
1000	+5V@160A	+12V@24A	-12V@10A	+24V@6A	PFD1005-4DH-Z
1000	+5V@160A	+12V@24A	-12V@10A	+48V@3A	PFD1005-4EH-Z

PFD-750/1000



NOTE:

1. CUSTOMER MUST PROVIDE ADEQUATE CLEARANCE AT FRONT, SIDE AND REAR SURFACES FOR AIR FLOW.
2. CUSTOMER UNIT MOUNTING SCREWS MUST NOT PROTRUDE INTO UNIT BY MORE THAN 1/4 INCH (6.3).
3. DIMENSIONS ARE IN INCHES EXCEPT THOSE IN BRACKETS () WHICH ARE IN MILLIMETERS.