

# FP832

## Anode/Screen & Triple MCP Power Supply

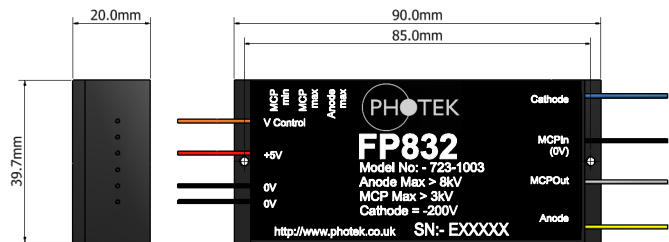
The FP832 module is a +5V input, 8000V, 2800V and -200V triple output power supply designed to supply an image intensifier tube in grounded “MCP In” mode.

This unit requires an external +5V/300mA d.c. power supply.

The MCP maximum and minimum voltages are user adjustable between 100V and 2800V with a minimum resistance of 50Mohm. The MCP maximum must be pre-set while the voltage control input is at 5V. The MCP minimum must be pre-set when the voltage control input is at 0V. MCP max must be adjusted before MCP min.

The Anode/Screen output voltage is a nominal value between 1000V and 8000V (wrt MCPOut) and may be pre-set to any voltage within this range. The Anode/Screen floats on top of the MCP Out and tracks any voltage control adjustments made to the MCP. The cathode of the FP832 is fixed at a nominal value of -200V.

FP832 PSU Connections	
Inputs	
Red	+5V
Black	0V
Orange	Voltage Control
Output s	
Yellow	Screen
White	MCP Out
Black	MCP In (0V)
Blue	Cathode



Electrical Specifications - Inputs		Mechanical Specifications	
Supply Voltage	5V D.C. ±5% (5.5V Absolute Maximum)	Length	90mm
Supply Current (max)	300mA	Width	40mm
Startup Current Surge	<500mA	Height	20mm
<b>Electrical Specifications - Outputs</b>		Weight	<90g
MCP O/P Voltage Max.	>2800V	<b>Operating Temperature Range</b>	
MCP Min Load	50MΩ	Minimum	0°C
Anode O/P Voltage Max.	>8000V@0uA	Maximum	50°C
Anode O/P Current Max.	8uA	<b>Wire Specifications</b>	
Cathode O/P Voltage Max.	-220V	Teledyne Reynolds Micro-Flex	18kV
Cathode Impedance	2GΩ	Wire Length ( PTFE awg28)	>200mm

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Photek reserves the right to amend general information contained in this manual without prior notice.

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