

FP630

Anode/Screen & Triple MCP Power Supply

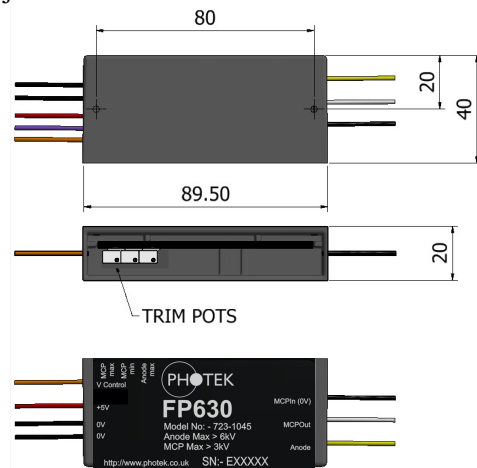
The FP630 module is a +5V input, 6000V, 2800V and -200V dual output power supply designed to supply an image intensifier tube in grounded “MCP In” mode.

This unit requires an external +5V/300mA d.c. power supply. This unit would normally be used in conjunction with a cathode gate module such as Photeks GM10-50 or GM200-3.

The MCP voltage is a nominal value between 100V and 2800V which is user adjustable 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 MCP Out voltage will then be remotely adjustable via the Voltage Control input between the pre-set limits.

The Anode/Screen output voltage is a nominal value between 1000V and 6000V (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.

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



Electrical Specifications		Mechanical Specifications	
Supply Voltage	5V D.C. ±5% (5.5V Absolute Maximum)	Length	90mm
Supply Current (max)	300mA	Width	40mm
MCP O/P Voltage Max.	>2800V	Height	20mm
Anode O/P Voltage Max.	>6000V	Weight	<90g
Anode O/P Current Max.	1uA		
Wire Specifications		Operating Temperature Range	
Teledyne Reynolds Micro-Flex	18kV	Minimum	0°C
Wire Length (PTFE awg28)	>200mm	Maximum	50°C

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Any unauthorised adjustment or modification to this unit will void all warranties and will only be supported at Photeks discretion.

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

User Manual	UMFP630
Issue:	1
Date:	24-4-2013
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