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FPB Series

compact photomultiplier power base incorporating a SDS high voltage supply and a voltage divider for \emptyset 25mm, \emptyset 28mm, and \emptyset 51mm PMTs





made to order product Vin : 5Vdc, 12Vdc, 15Vdc or 24Vdc Vout : 0 to 100V through 0 to 1500V Pout : 0.1W to 1W

SDS manufactures complete power bases upon request to match your photomultipliers of tube diameters of 25mm (1 inch), 28mm ($1^{1/8}$ inch), and 51mm (2 inch).



For an easy use of photomultiplier tubes, SDS designs socket assemblies consisting of a high quality socket, a voltage divider circuit, and a high voltage converter integrated into a compact and lightweight housing. They operate from 5, 12, 15 or 24Vdc inputs, providing single outputs of up to 1500Vdc.

The voltage-divider network is designed according to the application measurement or counting. Voltage monitoring is available upon request. These products are fully encapsulated.

Below are the general characteristics of our whole line of power base assemblies. Different power base designs are possible according to the types of photomultipliers and their mode of operation.

lightweight

compact design

good stability

- Iow noise due to metal shielding
- continuous short circuit and arc protection
- output voltage monitoring as an option
- Parameters **Specifications** Input voltage Vin 5Vdc, 12Vdc, 15Vdc or 24 Vdc \pm Input current at no load: 20mA HV output Vout adjustable from 0 to 1500Vdc max Polarity fixed positive or negative dependir HV setting via external voltage source 0/5V, i or via external potentiometer, minir accuracy: ±0.1% at full scale Max. output current lout depending on the model Load voltage regulation ±0,01% of full output voltage for n ±0,01% of full output voltage over Line voltage regulation **Residual ripple** ±0,005% peak-to-peak at full load Temperature coefficient 200ppm/°C for the maximum outp over temperature range 0 to 50°C Output reference voltage 5V, accuracy: 0.5%, temperature HV power ON/OFF to disable: opened remote interloc or enable: closed remote interlock 0°C to +50°C Operating temperature Storage temperature -20°C to +70°C Safeguards arc and short circuit protection HV monitoring : 1V for 1000V, out Option
- tight line/load regulation
- output current limit protection
- extremely low ripple (±0,005% p. to p.)

Main Application

1Vdc depending on the model at full load: 90mA	 Photomultiplier Tubes (PMTs) 		
ax. depending on the model			
ing on the model			
input impedance >1M Ω imum resistance 10k $\Omega \pm 1\%$			
no load to full load			
er specified input voltage range			
d			
put voltage after starting and		Flying Leads	
coefficient: 50ppm°C	Red:stOrange:H'Yellow:Vr	supply 0V, GND	
ck k		supply Vin HV control input Vref output	
itput impedance 200kΩ	Option Green:	high voltage monitor	

Package Configuration		
Case material	brass or copper with chemical nickel-plating	
Tube dimensions	(inner diameter/external diameter/length), socket non included	
	■ for Ø25mm PMTs: 25/26/65 mm ■ for Ø28mm PMTs: 28/30/65 mm ■ for Ø51mm PMTs: 56/62/65 mm	
Weight	110g	
nput/Output cos0RS#AR自动化 h代》(分為Wisensor-ic.com/ TEL: 0755983396489中AR.6755-83996482中 MAIL:szss200163.com		
Insulation internal socket, divider and HVPS entirely potted in a resin		