SPECIFICATIONS

VOLTAGE CONTROL	±3.5 kV Configuration	±7 kV Configuration
Range	100-3500 V	200-7000 V
CAMAC Programming	14 bits	14 bits
CAMAC Step	0.25 V	0.5 V
CAMAC Accuracy	≤ ±(1.5 V + 0.1%)	≤ ±(3 V + 0.1%)
Front-Panel Adjustment	Ten-turn vernier potentiometer	
	500 V/turn	1000 V/turn
CAMAC Monitor	12-bit ADC	12-bit ADC
CAMAC Resolution	1 V	2 V
CAMAC Offset (response to 0 V output)	0-2 counts	0-2 counts
CAMAC Accuracy	±0.2%	±0.2%
Front-Panel Monitor	Low Impedance (< 10 Ω) voltage output, suitable for driving a meter; BNC connector.	
Front-Panel Scale	2 V/kV ±0.5%	1 V/kV ±0.5%
Front-Panel Offset (value for 0 V output)	≤ ±4 V referred to HV output	≤ ±8 V referred to HV output
CURRENT CONTROL		
Range	0-2.5 mA	0-1 mA
CAMAC Programming	8 bits	8 bits
CAMAC Step	10 μA	4 μA
CAMAC Accuracy	±(1% + 12 μA)	±(1% + 5 μA)
Front-Panel Adjustment	Ten-turn vernier potentiometer	
	250 μA/turn	100 μA/turn
CAMAC Monitor	12-bit ADC	12-bit ADC
CAMAC Resolution	625 nA	250 nA
CAMAC Offset (Response to 0 μA load)	1 or 2 counts	1 or 2 counts
CAMAC Accuracy	±0.5%	±0.5%
Front-Panel Monitor	Low Impedance (< 10 Ω) voltage output, suitable for driving a meter; BNC connector.	
Front-Panel Scale	4 V/mA ±0.5%	10 V/mA ±0.5%
Front-Panel Offset (value for 0 V output)	≤ ±4 μA	≤ ±2 μA
GENERAL		
Output Power Rating	7 W	7 W
Output Ripple (at maximum current)	< 50 mV rms	< 50 mV rms
Output Temperature Coefficient	Typically ±50 ppm/°C, ±100 ppm/°C maximum	
Voltage Regulation	< 0.5 V (0 to 2.5 mA)	< 1 V (0 to 1 mA)
Short Circuit Protection	Yes	Yes
Output Connector	SHV	Reynolds 1064-1
CONTROLS		
HV On/Off	Toggle switch; turns On/Off HV output.	
Manual/Remote	Selects front panel or CAMAC operation of voltage and current set.	
ADC	12 bits; conversion time < 30 μsec.	
INDICATOR LAMPS		
HV On	Voltage present at output.	
Overload	Supply in current-limiting mode.	
Positive	Positive output configuration.	
Negative	Negative output configuration.	
3.5 kV	ON	OFF
7 kV	OFF	ON
POWER	350 mA at +24 V; 350 mA at -24 V; 350 mA at +6 V.	

HV