

Polaris III Specifications

Specifications	Polaris III 180kv	Polaris III 250kv	Polaris III 360Kv	Polaris III 500kv
Maximum Power	4500 W	4500 W	4500 W	4500 W
kV Range	7.5 - 180kV	10 – 250 kV	20 – 360 kV	20 – 500 kV
kV Accuracy	± 0.25% of Demand Value	± 0.25% of Demand Value	± 0.25% of Demand Value	± 0.25% of Demand Value
kV Reproducibility	≤0.01 % of Demand Value	≤0.01 % of Demand Value	≤0.01 % of Demand Value	≤0.01 % of Demand Value
High Voltage Ripple	< 0.05% RMS @ Full Load with 10 M HV Cable	< 0.05% RMS @ Full Load with 10 M HV Cable	< 0.05% RMS @ Full Load with 10 M HV Cable	< 0.05% RMS @ Full Load with 10 M HV Cable
mA Range	0 - 45 mA	0 – 30 mA	0 – 30 mA	0 – 30 mA
mA Accuracy	± 0.25% of Demand Value	± 0.25% of Demand Value	± 0.25% of Demand Value	± 0.25% of Demand Value
mA Reproducibility	≤ 4 µA	≤ 4 µA	≤ 4 µA	≤ 4 µA
Drive Frequency	Auto Variable 48KHz to 62 KHz	Auto Variable 48KHz to 62 KHz	Auto Variable 48KHz to 62 KHz	Auto Variable 48KHz to 62 KHz
Rise Time	Zero to Full Load 500mS	Zero to Full Load 500mS	Zero to Full Load 500mS	Zero to Full Load 500mS
Input Voltage	230V +10/-15% 47-63Hz (3 phase available)	230V +10/-15% 47-63Hz (3 phase available)	230V +10/-15% 47-63Hz (3 phase available)	230V +10/-15% 47-63Hz (3 phase available)
Input Current	25A at full load	25A at full load	25A at full load	25A at full load
Power Factor	>0.98	>0.98	>0.98	>0.98
Output Connector	R24	R28	R24	R28

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Dimensions Cathode (W x H X D)	15.5"(393mm) X 27.5" (699mm) X 27' (686mm)	18"(457mm) X 30" (762mm) X 33.5" (851mm)	15.5"(393mm) X 27.5" (699mm) X 27' (686mm)	18"(457mm) X 30" (762mm) X 33.5" (851mm)
Dimensions Anode (W x H X D)			15.5"(393mm) X 27.5" (699mm) X 27' (686mm)	18"(457mm) X 30" (762mm) X 33.5" (851mm)
Weight	415 lbs (188kg)	580 lbs (263 kg)	750 lbs (340kg kg) Combined	1100 lbs (499kg) Combined
Temperature Induced Drift	30 ppm/°C of output value	30 ppm/°C of output value	30 ppm/°C of output value	30 ppm/°C of output value
Storage Temperature	-40° C to + 70° C	-40° C to + 70° C	-40° C to + 70° C	-40° C to + 70° C
Operational Temperature	0°C to + 40°C	0°C to + 40°C	0°C to + 40°C	0°C to + 40°C
Relative Humidity	95%	95%	95%	95%
Duty Cycle	100%	100%	100%	100%