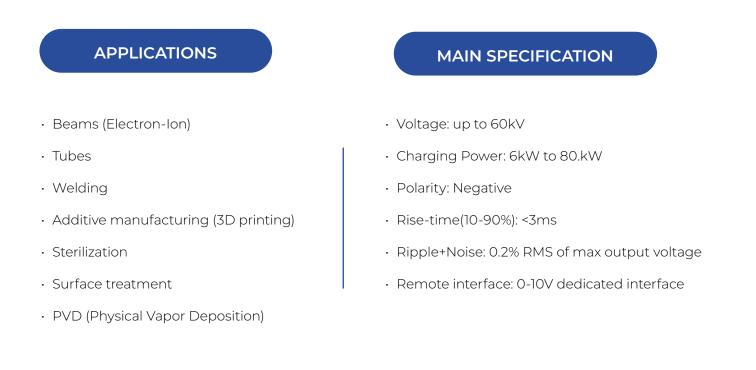




Single source power supply is dedicated to Electron Beam application. EB-K Power Supplies provides rapid rise time and advanced arc management to ensure beam continuity.





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## **TECHNICAL SPECIFICATIONS**

FORMAT	19" rack or 19" cabinet					
	May unclude a separate HV block (option)					
EFFICIENCY	> 92% at full load					
MAINS INPUT	400 VAC ±10%, 47-63 Hz					
	3 Phases + Earth					
INPUT POWER FACTOR	≥ 0.90 at full load					
INRUSH CURRENT	Limited to operating current at full power					
VOLTAGE LOAD REGULATION	< 0.1% (for 10–100% load)					
VOLTAGE LINE REGULATION	< 0.05% (for Mains Voltage ± 10%)					
CURRENT LOAD REGULATION	< 0.05% (for 10–100% load)					
CURRENT LINE REGULATION	< 0.05% (for Mains Voltage ± 10%)					
STABILITY (AFTER 1-HOUR WARM-UP)	0.1% / hour, 0.03 % / 8 hours of operating with constant load and					
	ambient temperature					
ACCESSORIES	3m removable coaxial HV cable, interlock terminator, safety key					

### CONTROL

REMOTE CONTROL INTERFACE

Standard: 0-10V Analogue





## **OPERATING ENVIRONMENT**

OPERATING TEMPERATURE	From 0 to 40°C
STORAGE TEMPERATURE	From -20°C to 40°
TEMPERATURE COEFFICIENT	200 ppm/°C

#### STANDARDS AND REGULATIONS

CE CERTIFIED AND ACCORDING	Low voltage directive: 2014/35/EU
	EMC directive: 2014/30/EU
	RoHS directive: 2011/65/EU
	EN 61000-6-2: 2005 + AC (2005)
	EN 61000-6-4: 2007 + A1 (2011)
	EN 61326-1: 2013
	EN 61000-3-2: 2014
	EN 61000-3-3: 2013
	EN 61010-1: 2010
	EUROLAB EMC decision n°11: issue 1 of 18 of December 2007

#### DOCUMENTATION AND SERVICES

DOCUMENTATIONS	User manual			
	Device test report			
	EU declaration of conformity <b>CE</b>			
	RoHS2 declaration of conformity			
WARRANTY	2 years			
	Extension on demand			
ON DEMAND	Factory Acceptance Test (FAT)			
	Detailed design report			
	Custom tests			
	Manufacturing process certification			





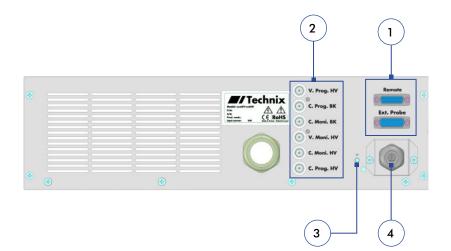
#### INTERFACES

#### FRONT PANEL

- 1. ON / OFF
- 2. Arc protection settings

#### REAR PANEL

- 1. D-SUB
- 2. BNC
- 3. Earth bolt
- 4. Mains input





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## 0-10V ANALOG INTERFACE

PIN	SIGNAL	SIGNAL DESCRIPTION		
1-3	Fault status	Contact Closed = No Fault detected; Contact Open = Fault detected		
5-7	Interlock status	Internally connected. Allows the user to know if the connector is plugged		
9-11	HV-On control	Contact Closed by user = HV delivered Contact Opened by user = Generator stops to deliver HV		
4-12-13-15	0V reference	0V ground reference		
2-4	Inhibit control	Contact Open = Inhibit active ( the generator does not produce HV) ; Contact Closed = inhibit inactive		
6	Arc monitor	When electric arc is detected, the open collector output goes to low level for 100 mS (Monostable)		
8	Arc monitor	When electric arc is detected, the open collector output goes to low level in real-time		
10		Not connected		
14	Output Voltage control	When Output voltage setting is reached, the open collector output goes to low level	Output	

### RANGES

## MODEL REFERENCE: EBM 30 to 60 KV - 6 to 80 KW

VOLTAGE POWER

OUTPUT VOLTAGE	6 kW	15 kW	20 kW	40 kW	80 kW
	Max Current				
30 kV	210 mA	510 mA	667 mA	1.43 A	2.67 A
45 kV	147 mA	367 mA	450 mA	897 mA	1.78 A
60 kV	110 mA	260 mA	340 mA	680 mA	1.34 A



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