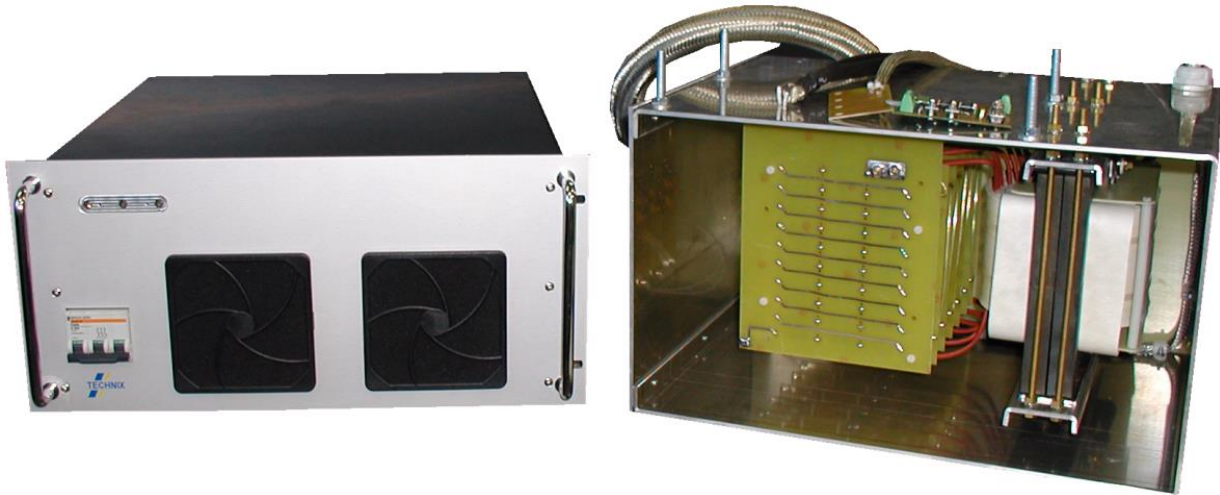




## High Voltage Generators for Electron Beam welding Separated models 6 kW to 120 kW



60 kV, 15 kW model

*Non-contractual photo*

### Main information

- Compact & industrial design
- Low stored energy: 1J/kW
- Adjustment of times process :
  - raising time when starting
  - stop time after an arc
  - raising time after an arc
- Accurate metrology adjustment :
  - output voltage calibration
  - output current calibration
  - parallel & serial compensation
- Serial resistance for output voltage
- Flashless mode available
- Total protection against arcs, overloads & short circuits
- Low Electromagnetic Interference (EMI)
- Low ripple + noise
- Double resonance converter using IGBT
- 2 years warranty

#### Example of reference : **SR 60-N-6 EBW**

Mode : **S**R model (generator)  
 Voltage : Adjustable from 0 to **60** kV  
 Polarity : **N**egative polarity  
 Power : **6** kW power  
**E**lectron **B**eam **W**elding

### Description

With more than 10 years of experience in design and production of **electron beam welding**, TECHNIX offers a complete range of sources dedicated for this application.

Based on double-resonance technology, these power supplies offer many advantages in terms of performance, flexibility, reliability and price.

Separate models are offered for customers who have their own oil tank and looking for the most economical solution.

HV block and regulation block are delivered separately.

HV block is immersed in customer oil tank and the connection between HV and regulation can easily be made.

In standard 45 kV, and 60kV are available.

Other Voltages can be considered.

Power range from 6 kW to 120 kW.



## Electrical specifications

**Mains Voltage:** 3 x 400V  $\pm 10\%$  50 – 60 Hz + Earth

**Polarity:** Negative (earth reference)

**Voltage regulation:**

**Load Regulation:** better than 0.1 % (for 10 – 100 % load)

**Line Regulation:** better than 0.05 % (for Mains Voltage  $\pm 10\%$ )

**Current regulation :**

**Load Regulation:** better than 0.05 % (for 10 – 100 % load)

**Line Regulation:** better than 0.05 % (for Mains Voltage  $\pm 10\%$ )

**Ripple + Noise:** Less than 0.1% RMS

**Stability (after one hour warm-up)**

0.1 % / hour, 0.03 % / 8 hours of operating with constant load and ambient temperature

**Temperature Coefficient:** 200 ppm/°C

**Operating Temperature:** from 0 to 40°C

**Stocking temperature :** from -20°C to 40°C

**CE Certification**

## Physical description and performances

	Adjustable output voltage	Adjustable output current	Efficiency	Stored energy	Dimensions of HV block	Size with separated block	Weight
<b>6 kW</b>	0 to 60 kV	0 to 110 mA	> 90%	< 6 J	H265xW454xD340 mm	3U 19" rack	50 kg
<b>15 kW</b>	0 to 60 kV	0 to 260 mA	> 90%	< 15 J	H265xW454xD340 mm	5U 19" rack	70 kg
<b>20 kW</b>	0 to 60 kV	0 to 340 mA	> 92 %	< 20 J	H265xW454xD340 mm	5U 19" rack	75 kg
<b>40 kW</b>	0 to 60 kV	0 to 680 mA	> 92 %	< 40 J	H530xW454xD340 mm	18U 19" cabinet	200 kg
<b>60 kW</b>	0 to 60 kV	0 to 1.05 A	> 92 %	< 60 J	H530xW454xD680 mm	24U 19" cabinet	280 kg
<b>80 kW</b>	0 to 60 kV	0 to 1.34 A	> 92 %	< 80 J	H530xW454xD680 mm	36U 19" cabinet	350 kg

