

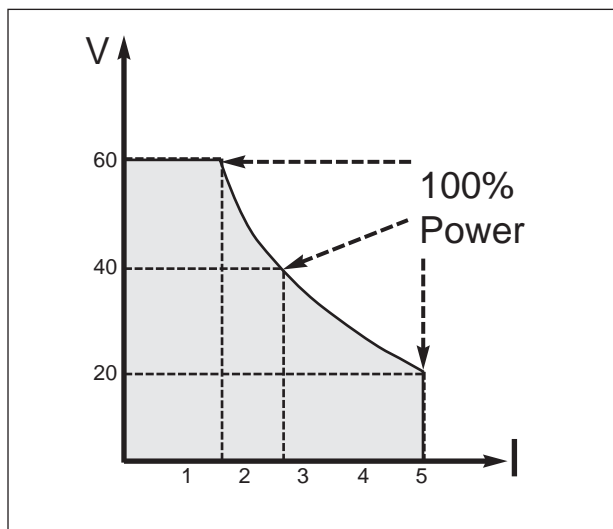
**Data Sheet**

**100W Multi Range  
60V/5A DC Power  
Supply**

**Model 9110**



The 9110 is a new type of power supply. Unlike conventional power supplies with fixed output ratings, the 9110 automatically recalculates voltage/current limits for each setting, forming a constant power hyperbolic shaped boundary as illustrated in the diagram below. The 9110 provides 100W output power in any Volt/Amp combination within the rated voltage (60V) and current (5A) limits. By providing greatly expanded choices of Volt/Amp combinations, users can cut down on the number of power supplies required and free up valuable bench space.



Example:

When setting the voltage to the maximum of 60V, the maximum current value is  $100W/60V = 1.66A$ . For a 20V setting, the maximum current is 5A. Maximum output power of 100W is possible for all Volt/Amp combinations that lie on the hyperbolic curve.

**Key Features:**

- Digitally controlled, mixed mode linear/switching DC power supply
- 10mV/1mA resolution over the full range
- Bright, easy to read display
- Very compact size and light weight
- Low ripple and noise
- High reliability due to OCP, OVP and OTP (Over current/voltage/temperature protection)
- Output On/Off control
- Store and recall 4 x 100 groups of preset Volt/Amp values
- Temperature controlled, variable speed fan cooling

| Specifications   |  | model                    |
|--|--|--------------------------|
|  | 9110   |                          |
| Output Ratings   | Voltage<br>0 ~ 60V                               | Current<br>0 ~ 5A        |
|  | Max. Power: 100W                                 |                          |
| Load Regulation  | $\leq 0.01\% + 3mV$                              | $\leq 0.01\% + 3mA$      |
| Line Regulation  | $\leq 0.01\% + 3mV$                              | $\leq 0.1\% + 2mA$       |
| Setting Accuracy   | $\leq 0.05\% + 10mV$                             | $\leq 0.2\% + 2mA$       |
| Display Accuracy   | $\leq 0.05\% + 10mV$                             | $\leq 0.1\% + 2mA$       |
| Ripple   | $\leq 2.0 mVrms$                                 | $\leq 5 mArms$           |
| <b>General</b>   |  |                          |
| State Storage Memory   | 100 groups with 4 sets of Volt/Amp memories each |                          |
| Weight   | 5.9lbs (2.65kg)                                  |                          |
| Dimensions (W x H x D)   | 3.47" x 6.9" x 11.1"<br>(88mm x 175mm x 282mm)   |                          |
| <b>Accessories</b>   |  | <b>One Year Warranty</b> |
| SUPPLIED: Line Cord, Manual  |  |                          |
| OPTIONAL: TL 5A (5A test leads), TL 30 (30A test leads), TLPS (Power supply test lead kit) |  |                          |

Specifications subject to change without notice

**B&K Precision Corporation**

22820 Savi Ranch Parkway, Yorba Linda, CA 92887  
Tel: 714-921-9095, Fax: 714-921-6422  
www.bkprecision.com