

## Data Sheet

| Output Specification  | models  |                          |          |           |
|---|---|--------------------------|----------|-----------|
|   | VSP6020*  | VSP2050*                 | VSP4030* | VSP12010* |
| Power   | 1.2KW   | 1.2KW                    | 1.2KW    | 1.2KW     |
| Output Voltage  | 0-60V   | 0-20V                    | 0-40V    | 0-120V    |
| Output Current  | 0-20A   | 0-50A                    | 0-30A    | 0-10A     |
| Ripple rms. (10Hz to 1MHz)  | ≤ 10mV  | ≤ 15mV                   | ≤ 10mV   | ≤ 20mV    |
| Noise (10Hz to 20MHz)   | ≤ 45mVpp  | ≤ 45mVpp                 | ≤ 45mVpp | ≤ 45mVpp  |
| Programming Resolution(Digital Interface), LSB (not LED displays) |   |                          |          |           |
| Voltage   | 20 mV   | 10 mV                    | 10 mV    | 100 mV    |
| Current   | 10 mA   | 20 mA                    | 10 mA    | 10 mA     |
| Output Programming Accuracy(Analog Programming 0 To 5v & 0 To 10) |   |                          |          |           |
| Voltage   | 0.5 % of F.S. ± 1 Digit (spec. for all VSP models)  |                          |          |           |
| Current   | 0.5 % of F.S. ± 1 Digit (spec. for all VSP models)  |                          |          |           |
| Meter Accuracy  |   |                          |          |           |
| Voltage   | +/- 0.2% of FS. +/- 3 Digit. (spec. for all VSP models)   |                          |          |           |
| Current   | +/- 0.2% of FS. +/- 3 Digit. (spec. for all VSP models)   |                          |          |           |
| Regulation  |   |                          |          |           |
| CV Line Regulation  | 0.1 % of ES (spec. for all VSP models)  |                          |          |           |
| CC Line Regulation  | 0.1 % of ES (spec. for all VSP models)  |                          |          |           |
| CV Load Regulation  | 0.1 % of ES (spec. for all VSP models)  |                          |          |           |
| CC Load Regulation  | 0.1 % of ES (spec. for all VSP models)  |                          |          |           |
| Output Specification  |   |                          |          |           |
| Stability   | 0.05%   |                          |          |           |
| Efficiency  | 80% Minimum   |                          |          |           |
| Transient Response  | 250 microseconds for load change from 40% to 90%  |                          |          |           |
| Mode Of Operation   |   |                          |          |           |
| Local Mode  | Through front panel potentiometer for voltage, current and over voltage and Push switch for Output ON/ OFF control. |                          |          |           |
| Remote Mode   | Interface Analog programming of voltage and current.  |                          |          |           |
| Voltage   | 0 - 5 volts or 0 - 10 volts for output voltage and current, selection through DIP-switch.                           |                          |          |           |
| Resistance  | 0 - 4.85k ohms from 0 to full-scale level.  |                          |          |           |
| Digital Interface   | RS-232 / GPIB   |                          |          |           |
| Protections   |   |                          |          |           |
| Over voltage protection   | Programmable through POT in local mode and through digital interface in remote mode.                                |                          |          |           |
| Over temperature protection                                       | Through 90 °C. Thermal switch on heat sink.   |                          |          |           |
| Input specifications  |   |                          |          |           |
| Mains Input Range   | 95Vac to 264Vac.  |                          |          |           |
| Input Frequency   | 47 To 63 Hz   |                          |          |           |
| Input Power Factor  | 0.99 On Full Load At Nominal Input.   |                          |          |           |
| Inrush Current  | Limited By NTC  |                          |          |           |
| Operating Environment   |   |                          |          |           |
| Temperature   | 0 - 50°C  |                          |          |           |
| Relative Humidity   | < 80% rh - non condensing   |                          |          |           |
| Storage Temperature   | - 20°C. to + 70°C.  |                          |          |           |
| Warm-up Time  | 15 minutes.   |                          |          |           |
| Safety Standards  |   |                          |          |           |
| EMI Filtering   | EN55022 Class-A   |                          |          |           |
| Safety Class  | EN60950   |                          |          |           |
| Mechanical Specifications   |   |                          |          |           |
| Weight (approx.)  | 13.7lbs. (6.2 KG.)  |                          |          |           |
| Dimensions (WxHxD)  | 19 x 1.75 x 18" (483 x 44.5 x 457mm)  |                          |          |           |
| Dimensions with rubber feet                                       | 19 x 2.13 x 20" (483 x 54 x 457mm)  |                          |          |           |
| <b>Accessories</b>  |   | <b>One Year Warranty</b> |          |           |

