## 2. SPECIFICATIONS

The following specifications apply:

| | |
|---|---|
| Load Voltage: | 0-100V |
| Load Current: | 0-600A |
| Average Power Dissipation: | 0-4000W |
| Self-Protection: | |
| | Overvoltage--less than 120V |
| | Overcurrent--less than 640A |
| | Over-power --less than 4500W |

Front Panel Switches - Refer to front panel layout

S101 AC, Power ON/OFF Switch

S1 Voltmeter Range Select Switch

S2 Ammeter Range Select Switch

S3 DC Load ON/OFF Switch

MODE SELECTION

S4 60A DC LOAD - 0 to 60A constant current mode which is controlled by the front panel DC Load adjust.

S5 600A DC LOAD - 0 to 600A constant current mode which is controlled by the front panel DC Load adjust.

S6 30A/V DC LOAD - 0 to 30A/V constant resistance mode which is adjusted by the front panel DC Load adjust.

S7 300A/V DC LOAD - 0 to 300A/V constant resistance mode which is adjusted by the front panel DC Load adjust.

S8 60A PULSE LOAD - 0 to 60A pulse mode. The amplitude, frequency, duty cycle and DC baseline are adjustable by the front panel controls.

S9 600A PULSE LOAD - 0 to 600A pulse mode. The amplitude, frequency, duty cycle and DC baseline are adjustable by the front panel controls.

S10 REMOTE PROGRAM - In this mode the user can program the current level with a 0 to 10V programming voltage applied to J101 on the rear panel. The front panel controls are locked out.

S11 SHORT CIRCUIT - Drives load to saturation. Effective resistance is less than .002 ohms.

## FRONT PANEL ADJUSTMENTS

Refer to Front Panel Layout.

DC Load Adjust - Coarse and fine adjust controls with a 10 to 1 ratio for precise setting of load current for the constant resistance and constant current functions. This control is also functional in the pulse mode to adjust the DC load component.

Pulse Amplitude - Coarse and fine adjust controls with a 10 to 1 ratio for setting the peak current in the pulse mode, the maximum setting is 600 Amps peak.

Freq. Adj. - Coarse and fine controls adjust the frequency of the pulse generator.

Width - Adjusts the percentage of the on time to off time ratio of the pulse generator a minimum of 10% on time, to maximum of 90% on time can be achieved.

## FRONT PANEL STATUS INDICATORS

DC This indicator is on when the DC circuit breaker is engaged.

OV When an overvoltage condition exists this alarm will light and the DC breaker will disengage.

OC This alarm will light when the Dynaload is in current limit.

OP This alarm will light when the Dynaload has reached power limit.

OT If the Dynaload reaches overtemperature this alarm will light and the load will stop drawing current.

LOC This indicator will be on when one of the local modes are selected.

REM This indicator will light when the Dynaload is in the remote programming mode.

## REAR PANEL CONNECTIONS

E+ Positive Load Input
E- Negative Load Input

J103 AC, Input Connector
J101 Program Input Connector