

## ELP-3360

### Description

### High Voltage DC Load

This series of 500Vdc electronic Loads provides a wide range of current and power ranges. The high voltage makes these Electronic Loads ideal for Power Factor Correction testing along with a host of other production and laboratory applications. RS232 & GPIB interfaces are provided for computer control. The front panel has an isolated BNC output so that the load current can be monitored on an external scope. The high accuracy 4½ digit displays feature 16 bit resolution. Dual setting ranges provide excellent resolution at low current. For production testing GO/NG limits can be set. When used in constant current or constant power mode the load can be set to operate dynamically. This enables the load current to be switched between two levels and the current rise and fall times adjusted. The time that the load is at the higher sink level and the time it is at the lower setting can also be adjusted. A short test function is provided as standard. The short voltage and current can be read via the front panel or interface. If this feature is not desired then your chosen unit can be built without the short test function. The load can be set to automatically turn on or off when a preset voltage is present at the load's terminals.



- CC, CR, CV, CP, dynamic & short mode
- 150 sets store/recall memory
- IEEE488.2/RS232 interfaces
- LabVIEW drivers

### Selection Table

| Part Number | Maximum Power | Maximum Voltage | Maximum Current | Dimensions<br>(Width x Height x Depth) |
|-------------|---------------|-----------------|-----------------|--|
| ELP-3360    | 600W          | 500VDC          | 0 - 20A         | 19" x 4U x 445mm                       |
| ELP-3361    | 1200W         | 500VDC          | 0 - 40A         | 19" x 4U x 445mm                       |
| ELP-3362    | 1800W         | 500VDC          | 0 - 60A         | 19" x 4U x 445mm                       |
| ELP-3367    | 1800W         | 500VDC          | 0 - 12A         | 19" x 4U x 445mm                       |
| ELP-33611   | 2400W         | 500VDC          | 0 - 80A         | 19" x 8U x 445mm                       |
| ELP-33621   | 3600W         | 500VDC          | 0 - 120A        | 19" x 8U x 445mm                       |
| ELP-33671   | 3600W         | 500VDC          | 0 - 24A         | 19" x 8U x 445mm                       |
| ELP-3365    | 5400W         | 500VDC          | 0 - 120A        | 19" x 12U x 445mm                      |
| ELP-33622   | 5400W         | 500VDC          | 0 - 180A        | 19" x 12U x 445mm                      |
| ELP-33672   | 5400W         | 500VDC          | 0 - 36A         | 19" x 12U x 445mm                      |

### Options Table

| Code       | Description                 |
|------------|-----------------------------|
| /0001..... | 1m IEEE488.2 cable          |
| /0002..... | 2m IEEE488.2 cable          |
| /0003..... | 2m RS232 cable              |
| /9931..... | Remote controller           |
| /DSK.....  | Disable short test function |



## Technical Data

|                         | ELP-3360                             | ELP-3361        | ELP-3362        | ELP-3363        | ELP-3364        | ELP-3365        |
|-------------------------|--------------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Over Power Protection   | ~ 630W                               | ~ 1260W         | ~ 1890W         | ~ 2520W         | ~ 3780W         | ~ 5670W         |
| Over Current Protection | ~ 21A                                | ~ 42A           | ~ 63A           | ~ 84A           | ~ 126A          | ~ 126A          |
| Over Voltage Protection | ~ 525.5V                             | ~ 525.5V        | ~ 525.5V        | ~ 525.5V        | ~ 525.5V        | ~ 525.5V        |
| Over Temp. Protection   | ~ 85°C                               | ~ 85°C          | ~ 85°C          | ~ 85°C          | ~ 85°C          | ~ 85°C          |
| <b>CC Mode</b>          |                                      |                 |                 |                 |                 |                 |
| Range 1                 | 0 - 2A                               | 0 - 4A          | 0 - 6A          | 0 - 8A          | 0 - 12A         | 0 - 12A         |
| 1 Resolution            | 0.534mA                              | 1.068mA         | 1.6mA           | 2.133mA         | 3.2mA           | 3.2mA           |
| 2                       | 20A                                  | 40A             | 60A             | 80A             | 120A            | 120A            |
| 2 Resolution            | 5.334mA                              | 10.67mA         | 16mA            | 21.33mA         | 32mA            | 32mA            |
| Accuracy                | ± 0.5% of (setting + range)          |                 |                 |                 |                 |                 |
| <b>CR Mode</b>          |                                      |                 |                 |                 |                 |                 |
| Range 1                 | 1.334 - 25                           | 0.667 - 12.5    | 0.444 - 8.333   | 0.333 - 6.25    | 0.222 - 4.166   | 0.222 - 4.166   |
| 1 Resolution            | 6.667m                               | 3.334m          | 2.222m          | 1.667m          | 1.111m          | 1.111m          |
| 2                       | 25 - 18.75K                          | 12.5 - 18.75K   | 8.333 - 18.75K  | 6.25 - 18.75K   | 4.166 - 15.625K | 4.166 - 15.625K |
| 2 Resolution            | 0.0106mS                             | 0.0213mS        | 0.032mS         | 0.0426mS        | 0.064mS         | 0.064mS         |
| Accuracy                | ± 0.5% of (setting + range)          |                 |                 |                 |                 |                 |
| <b>CV Mode</b>          |                                      |                 |                 |                 |                 |                 |
| Range                   | 0 - 500V                             |                 |                 |                 |                 |                 |
| Resolution              | 0.1333 V                             |                 |                 |                 |                 |                 |
| Accuracy                | ± 0.25% of (setting + range)         |                 |                 |                 |                 |                 |
| <b>CP Mode</b>          |                                      |                 |                 |                 |                 |                 |
| Range 1                 | 0 - 600W                             | 0 - 1200W       | 0 - 1800W       | 0 - 2400W       | 0 - 3600W       | 0 - 5400W       |
| 1 Resolution            | 0.16W                                | 0.32W           | 0.48W           | 0.64W           | 0.96W           | 1.44W           |
| Accuracy                | ± 0.5% of (setting + range)          |                 |                 |                 |                 |                 |
| <b>4½ DVM</b>           |                                      |                 |                 |                 |                 |                 |
| Range                   | 0 - 60.00V                           |                 |                 |                 |                 |                 |
| Resolution              | 0.01V                                |                 |                 |                 |                 |                 |
| Range                   | 600.0V                               |                 |                 |                 |                 |                 |
| Resolution              | 0.1V                                 |                 |                 |                 |                 |                 |
| Accuracy                | ± 0.05% of (reading + range)         |                 |                 |                 |                 |                 |
| <b>4½ DAM</b>           |                                      |                 |                 |                 |                 |                 |
| Range 1                 | 0 - 2.000A                           | 0 - 4.000A      | 0 - 6.000A      | 0 - 8.000A      | 0 - 12.000A     | 0 - 12.000A     |
| 1 Resolution            | 0.0001A                              | 0.001A          | 0.001A          | 0.001A          | 0.001A          | 0.001A          |
| 2                       | 20.00A                               | 40.00A          | 60.00A          | 80.00A          | 120.00A         | 120.00A         |
| 2 Resolution            | 0.001A                               | 0.01A           | 0.01A           | 0.01A           | 0.01A           | 0.01A           |
| Accuracy                | ± 0.2% of (reading + range)          |                 |                 |                 |                 |                 |
| <b>Dynamic</b>          |                                      |                 |                 |                 |                 |                 |
| Slew Rate 1             | 1.6mA - 0.1A/μS                      | 3.2mA - 0.2A/μS | 4.8mA - 0.3A/μS | 6.4mA - 0.4A/μS | 9.6mA - 0.6A/μS | 9.6mA - 0.6A/μS |
| Slew Rate 2             | 16mA - 1A/μS                         | 32mA - 2A/μS    | 48mA - 3A/μS    | 64mA - 4A/μS    | 96mA - 6A/μS    | 96mA - 6A/μS    |
| Thigh & Tlow            | 50μS - 9.999Sec                      |                 |                 |                 |                 |                 |
| Accuracy                | ± 10% ± 10μS                         |                 |                 |                 |                 |                 |
| Load ON voltage         | 0.4 - 100V, 1% of (setting + range)  |                 |                 |                 |                 |                 |
| Load OFF voltage        | 0 - 100V, 0.05% of (setting + range) |                 |                 |                 |                 |                 |
| Max. Short Resistance   | 0.25                                 | 0.125           | 0.0833          | 0.0625          | 0.0416          | 0.0625          |
| Weight                  | 15.2kgs                              | 14.4kgs         | 23.6kgs         | 38.8kgs         | 47.2kgs         | 70.8kgs         |