



## PEL-8150/8300

High Precision Electronic Load

PEL-8000 series adopts high-performance chip high-speed and high-precision design, providing resolution of 0.1mV, 0.01mA (basic accuracy is 0.03%, basic current rise rate is 2.5A / US)

### Features

- CC, CV, CR, CP, short circuit, dynamic and other working modes

- Overvoltage, overcurrent, overpower, overtemperature, reverse polarity protection
- High-brightness VFD screen, displaying V A P at the same time
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| model                                                                               |                  | PEL-8150                    |             | PEL-8300         |            |
|-------------------------------------------------------------------------------------|------------------|-----------------------------|-------------|------------------|------------|
| Rated input                                                                         | power            | 150W                        |             | 300W             |            |
|                                                                                     | Electric current | 0 ~ 30A                     |             | 0 ~ 60A          |            |
|                                                                                     | Voltage          | 150V                        |             |                  |            |
| Constant current mode                                                               | range            | 0 ~ 3A                      | 0 ~ 30A     | 0 ~ 6A           | 0 ~ 60A    |
|                                                                                     | Resolution       | 0. 1mA                      | 1mA         | 0. 1mA           | 1mA        |
|                                                                                     | Accuracy         | 0. 03% + 0. 05%             |             |                  |            |
| Constant voltage mode                                                               | range            | 0. 1 ~ 19. 999V 0. 1 ~ 150V |             |                  |            |
|                                                                                     | Resolution       | 1mV                         | 10mV        | 1mV              | 10mV       |
|                                                                                     | Accuracy         | 0. 03% + 0. 05% FS          |             |                  |            |
| Constant resistance mode (when input voltage and current value ≥ 10% of full scale) | range            | 0. 03Ω ~ 10k                | 0. 03Ω ~ 5k | 0. 3Ω ~ 10k      | 0. 3Ω ~ 5k |
|                                                                                     | Resolution       | 16bits                      |             |                  |            |
|                                                                                     | Accuracy         | 0. 2% + 0. 2% FS            |             | 0. 1% + 0. 1% FS |            |
| Constant power mode (when input voltage and current value ≥ 10% of full scale)      | range            | 0 ~ 150W                    |             | 0 ~ 300W         |            |
|                                                                                     | Resolution       | 1mV                         | 10mV        | 1mV              | 10mV       |
|                                                                                     | Accuracy         | 0. 2% + 0. 2% FS            |             | 0. 1% + 0. 1% FS |            |
| Voltage measurement                                                                 | Voltage          | 0 ~ 19. 999V                | 0 ~ 150V    | 0 ~ 19. 999V     | 0 ~ 150V   |
|                                                                                     | Resolution       | 1mV                         | 10mV        | 0. 1mV           | 1mV        |

|                                                                                                                                           |                       |                         |                   |                   |                   |
|-------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-------------------------|-------------------|-------------------|-------------------|
|                                                                                                                                           | Accuracy              | 0.015% + 0.05% FS       | 0.015% + 0.05% FS | 0.015% + 0.03% FS | 0.015% + 0.02% FS |
| Current measurement                                                                                                                       | Electric current      | 0 ~ 3A                  | 0 ~ 30A           | 0 ~ 6A            | 0 ~ 60A           |
|                                                                                                                                           | Resolution            | 0.1mA                   | 1mA               | 0.1mA             | 1mA               |
|                                                                                                                                           | Accuracy              | 0.05% + 0.1% FS         | 0.05% + 0.1% FS   | 0.03% + 0.05% FS  | 0.03% + 0.08% FS  |
| Power measurement value<br>(when input voltage and current value ≥ 10% of full scale)                                                     | power                 | 100W                    | 150W              | 100W              | 300W              |
|                                                                                                                                           | Resolution            | 1mW                     | 10mW              | 1mW               | 10mW              |
|                                                                                                                                           | Accuracy              | 0.2% + 0.2% FS          |                   | 0.1% + 0.1% FS    |                   |
| Battery measurement: battery input: 0.5 ~ 150V<br>maximum measurement: capacity = 999 / H; resolution = 0.1mA; actual = range = 1S ~ 16HS |                       |                         |                   |                   |                   |
| Dynamic test function: 0 ~ 5kHz; T1 & T2: 60Us ~ 999S; Accuracy: ± 15% offset + 10% FS                                                    |                       |                         |                   |                   |                   |
| Current soft start time: 1mS; 2mS; 5mS; 10mS; 20mS; 50mS; 100mS; 200mS; 500mS; 1000mS; 2000mS;<br>Accuracy: ± 15% offset + 10% FS         |                       |                         |                   |                   |                   |
| Short circuit function                                                                                                                    | Current (CC)          | 3A                      | 30A               | 6A                | 60A               |
|                                                                                                                                           | Voltage (CV)          | 0V                      |                   |                   |                   |
|                                                                                                                                           | Resistance (CR)       |                         | 55mΩ              |                   | 25mΩ              |
| temperature                                                                                                                               | Operating temperature | 0 ~ 40 ° C / 80RH       |                   |                   |                   |
|                                                                                                                                           | storage temperature   | -10 ° C ~ 70 ° C / 80RH |                   |                   |                   |
| Bare metal size (W * H * D)                                                                                                               | mm                    | 215 * 100 * 355         |                   |                   |                   |
| Packing size (W * H * D)                                                                                                                  | mm                    | 310 * 200 * 480         |                   |                   |                   |
| net weight                                                                                                                                | kg                    | 4.1                     |                   | 4.9               |                   |

|              |    |   |     |
|--------------|----|---|-----|
| Gross weight | kg | 5 | 5.8 |
|--------------|----|---|-----|