

# Programmable Electronic Load

**GW INSTEK**

## PEL-300



- Operating Power Up To 300W.
- Operating Voltage: 3 ~ 60Vdc, Current: 6mA ~ 60A.
- Dynamic Mode: 1Hz ~ 1kHz; Duty: 10% ~ 90%.
- Constant V/I/R Modes.

|                                             |                                                               | PEL-300                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|---------------------------------------------|---------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Rating</b>                               | Operating Voltage<br>Current<br>Power<br>Minimum Operation    | DC 3 ~ 60V<br>6mA ~ 60A<br>1 ~ 300W<br>3V                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>CV Mode</b>                              | Operating Range<br>Setting Accuracy<br>Setting Resolution     | DC 3 ~ 60V<br>$\pm (0.1\% + 40\text{mV})$<br>20mV                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>CC Mode</b>                              | Operating Range<br>Setting Accuracy<br><br>Setting Resolution | 6mA ~ 60A<br>6.02A ~ 60A Range, $\pm (0.5\% + 100\text{mA})$<br>0.602A ~ 6A Range, $\pm (0.1\% + 10\text{mA})$<br>6mA ~ 0.6A Range, $\pm (0.1\% + 1\text{mA})$<br>6.02A ~ 60A Range, 20mA<br>0.602A ~ 6A Range, 2mA<br>6mA ~ 0.6A Range, 0.2mA                                                                                                                                                                                                                                         |
| <b>CR Mode</b>                              | Operating Range<br>Setting Accuracy<br><br>Setting Resolution | 50m $\Omega$ ~ 1k $\Omega$<br>100.33 $\Omega$ ~ 1k $\Omega$ , $\pm (5\% + 1\Omega)$<br>10.033 $\Omega$ ~ 100 $\Omega$ , $\pm (5\% + 100\text{m}\Omega)$<br>1.0033 $\Omega$ ~ 10 $\Omega$ , $\pm (5\% + 1\text{m}\Omega)$<br>50m $\Omega$ ~ 1 $\Omega$ , $\pm (5\% + 1\text{m}\Omega)$<br>100.33 $\Omega$ ~ 1k $\Omega$ , 330m $\Omega$<br>10.033 $\Omega$ ~ 100 $\Omega$ , 33m $\Omega$<br>1.0033 $\Omega$ ~ 10 $\Omega$ , 3.3m $\Omega$<br>50m $\Omega$ ~ 1 $\Omega$ , 0.33m $\Omega$ |
| <b>Dynamic Operation<br/>(CC Mode Only)</b> | Frequency Range<br>Resolution<br><br>Duty Range<br>Resolution | 1Hz ~ 1kHz<br>105Hz ~ 1kHz Range, 5Hz<br>10.5Hz ~ 100Hz Range, 0.5Hz<br>1Hz ~ 10Hz Range, 0.05Hz<br>10% ~ 90%<br>1%                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Voltage Readback</b>                     | Accuracy<br>Resolution                                        | $\pm (0.1\% + 60\text{mV})$<br>20mV                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Current Readback</b>                     | Accuracy<br><br>Resolution                                    | 6.02A ~ 60A Range, $\pm (0.5\% + 100\text{mA})$<br>0.602A ~ 6A Range, $\pm (0.1\% + 10\text{mA})$<br>6mA ~ 0.6A Range, $\pm (0.1\% + 1\text{mA})$<br>6.02A ~ 60A Range, 20mA<br>0.602A ~ 6A Range, 2mA<br>6mA ~ 0.6A Range, 0.2mA                                                                                                                                                                                                                                                      |
| <b>Memory</b>                               | Store / Recall Points                                         | 0 ~ 99                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Timer</b>                                | Range<br>Resolution<br>Function                               | 1 sec ~ 999 min 59 sec<br>1 sec<br>for load on                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Power Source</b>                         |                                                               | AC100V / 120V / 220V / 240V $\pm 10\%$ , 50/60Hz                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Accessories</b>                          |                                                               | Power Cord x 1, Instruction Manual x 1                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Dimensions</b>                           |                                                               | 255mm (W) x 145mm (H) x 346mm (D)                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Weight</b>                               |                                                               | 9kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |