



## PEL-300



Patent No: 81011/81324

### FEATURES

- \* Operating Voltage DC 3 ~ 60V
- \* Operating Current 6mA ~ 60A
- \* Operating Power 1 ~ 300W
- \* Easy Operation, with UP/DOWN Key
- \* High Resolution : 20mV, 0.2mA, 0.33mΩ
- \* Over Voltage, Over Current, Over Power Protection
- \* 100 Sets Memory
- \* Operation Mode : Constant Voltage Mode ; Constant Current Mode ; Constant Resistance Mode
- \* Transient Generator Frequency  
Frequency Range : 1Hz ~ 1kHz ;  
Duty Range : 10% ~ 90%
- \* Self-Test and Software Calibration
- \* Meet UL CSA IEC Safety Regulation

The PEL-300 is single output, 300W, programmable DC electronic load. OVP, OCP, and OPP protect PEL from unexpected conditions. Compliance to major standards, US, CSA, and IEC, enhances safety level. High resolution is maintained at 10mV, 0.2mA, and 0.33mΩ. Configuration is simplified with output limit store/recall function and timer operation mode. Self-test and software calibration features reduce maintenance overhead. The PEL-300 is suitable to work in laboratory and production line applications, where safety and reliability are the top priorities.

SPECIFICATIONS	
<b>RATING</b>	
Operating Voltage	DC 3 ~ 60V
Current	6mA ~ 60A
Power	1 ~ 300W
Minimum Operation	3V
<b>CV MODE</b>	
Operating Range	DC 3 ~ 60V
Setting Accuracy	± (0.1% + 40mV)
Setting Resolution	20mV
<b>CC MODE</b>	
Operating Range	6mA ~ 60A
Setting Accuracy	±(0.5% + 100mA) for 6.02A ~ 60A ±(0.1% + 10mA) for 0.602A ~ 6A ±(0.1% + 1mA) for 6mA ~ 0.6A
Setting Resolution	20mA for 6.02A ~ 60A 2mA for 0.602A ~ 6A 0.2mA for 6mA ~ 0.6A
<b>CR MODE</b>	
Operating Range	50mΩ ~ 1kΩ
Setting Accuracy	±(5% + 1Ω) for 100.33Ω ~ 1kΩ ±(5% + 100mΩ) for 10.033Ω ~ 100Ω ±(5% + 1mΩ) for 1.0033Ω ~ 10Ω (5% + 1mΩ) for 50mΩ ~ 1Ω
Setting Resolution	330mΩ for 100.33Ω ~ 1kΩ 33mΩ for 10.033Ω ~ 100Ω 3.3mΩ for 1.0033Ω ~ 10Ω 0.33mΩ for 50mΩ ~ 1Ω
<b>DYNAMIC OPERATION CC MODE ONLY</b>	
Frequency Range	1Hz ~ 1kHz
Resolution	5Hz for 100Hz ~ 1kHz ; 0.5Hz for 10Hz ~ 100Hz 0.05Hz for 1Hz ~ 10Hz
Duty Range	10% ~ 90%
Resolution	1%
<b>VOLTAGE READBACK</b>	
Accuracy	± (0.1% + 60mV)
Resolution	20mV
<b>CURRENT READBACK</b>	
Accuracy	±( 0.5% + 100mA) for 6.02A ~ 60A ; ±(0.1% + 10mA) for 0.602A ~ 6A
Resolution	±( 0.1% + 1mA) for 6mA ~ 0.6A 20mA for 6.02A ~ 60A ; 2mA for 0.602A ~ 6A 0.2mA for 6mA ~ 0.6A
<b>MEMORY</b>	
Store/Recall	0 ~ 99 sets
<b>TIMER</b>	
Range	1 second ~ 999 minutes 59 second
Resolution	1 second
Function	for load on
<b>POWER SOURCE</b>	
AC100V/120V/220V/240V±10%, 50/60Hz	
<b>DIMENSIONS &amp; WEIGHT</b>	
255(W) x 145(H) x 346(D) mm, Approx. 9kg	

ORDERING INFORMATION	
<b>PEL-300</b>	300W DC Electronic Load
ACCESSORIES :	
User manual x 1, Power cord x 1	
<b>Optional Accessories</b>	
<b>GRA-401</b>	Rack Adapter Panel