

# DC Electronic Load

Model	PEL-503-80-50	PEL-504-80-70	PEL-504-500-15	PEL-507-80-140	PEL-507-500-30	
<b>INPUT RATINGS</b>						
Power(Watt)	250 W	350 W	350 W	700 W	700 W	
Current(Ampere)	50 A	70 A	15 A	140 A	30 A	
Voltage(Volt)	80 V	80 V	500 V	80 V	500 V	
Min. Operating Voltage	1.0V @ 50A	1.2V @ 70A	6V @ 15A	0.9V @ 140A	3V @ 30A	
<b>PROTECTIONS</b>						
Over Power Protection(OPP)	≈262.5W	≈367.5W	≈367.5W	≈735W	≈735W	
Over Current Protection(OCP)	≈52.5A	≈73.5A	≈15.75A	≈147A	≈31.5A	
Over Voltage Protection(OVP)	≈84V	≈84V	≈525V	≈84V	≈525V	
Over Temp. Protection(OTP)	YES	YES	YES	YES	YES	
<b>CC Mode</b>						
Range	0-5.04-50.4A	0-7.02-70.2A	0-1.5-15A	0-14.04-140.4A	0-3-30A	
Resolution	0.084mA/84mA	0.117mA/1.17mA	0.025mA/0.25mA	0.234mA/2.34mA	0.05mA/ 0.5mA	
Accuracy	±0.1% of (SETTING + RANGE)					
<b>CR Mode</b>						
Range	0.016-1.6-96000Ω	0.0114-1.14-68400Ω	0.4-40-2400000Ω	0.0057-0.57-34200Ω	0.2-20-1200000Ω	
Resolution	26.666μΩ/0.010416mSiemens	19μΩ/0.014619mSiemens	666.667μΩ/0.416μSiemens	9.5μΩ/29.239μSiemens	333.334μΩ/0.833μSiemens	
Accuracy	±0.2% of (SETTING + RANGE)					
<b>CV Mode</b>						
Range	0-8.1-81V	0-8.1-81V	0-60-500V	0-8.1-81V	0-60-500V	
Resolution	0.135mV/1.35mV	0.135mV/1.35mV	1mV/10mV	0.135mV/1.35mV	1mV/10mV	
Accuracy	±0.05% of (SETTING + RANGE)					
<b>CP Mode</b>						
Range	0-25.02-250.2W (Imax=r1:5A, r2:50A)	0-35.04-350.4W (Imax=r1:7A, r2:70A)	0-35.04-350.4W (Imax=r1:1.5A, r2:15A)	0-70.02-700.2W (Imax=r1:14A, r2:140A)	0-70.02-700.2W (Imax=r1:3A, r2:30A)	
Resolution	0.417mW/4.17mW	0.584mW/5.84mW	0.584mW/5.84mW	1.167mW/11.67mW	1.17mW/117mW	
Accuracy	±0.5% of (SETTING + RANGE)					
<b>Dynamic Mode</b>						
THIGH/TLOW	10μS to 9.999 Sec					
Resolution	0.001/0.01/0.1/1mS					
Slew rate	L	0.032-2A/μs	0.0464-2.90A/μs	1-62.5mA/μs	0.0096-0.6A/μs	2-125mA/μs
	H	3.2-200mA/μs	4.64-290mA/μs	10-625mA/μs	0.096-6A/μs	20-1250mA/μs
Accuracy	±5%±10μs					
<b>Measurement</b>						
Voltage Read Back	Range (5 Digital)	0-8.1-81V	0-8.1-81V	0-60-500V	0-8.1-81V	0-60-500V
	Resolution	0.135mV/1.35mV	0.135mV/1.35mV	1mV/10mV	0.135mV/1.35mV	1mV/10mV
	Accuracy	±0.025% of (READING + RANGE)				
Current Read Back	Range (5 Digital)	0-5.04-50.4A	0-7.02-70.2A	0-1.5-15A	0-14.04-140.4A	0-3-30A
	Resolution	0.084mA/84mA	0.117mA/1.17mA	0.025mA/0.25mA	0.234mA/2.34mA	0.05mA/ 0.5mA
	Accuracy	±0.1% of (READING + RANGE)				
Power Read Back	Range (5 Digital)	25W 250W	35W 350W	35W 350W	70W 700W	70W 700W
	Resolution	0.001W 0.01W	0.001W 0.01W	0.001W 0.01W	0.001W 0.01W	0.001W 0.01W
	Accuracy	±0.1% of (READING + RANGE)				
<b>Surge Test</b>						
Surge & Normal current	0-50A	0-70A	0-15A	0-140A	0-30A	
Surge time	10-1000ms	10-1000ms	10-1000ms	10-1000ms	10-1000ms	
Surge step	1-5	1-5	1-5	1-5	1-5	
<b>Battery Discharge Test</b>						
UVP	0-81V	0-81V	0-500V	0-81V	0-500V	
Time	1-99999 Sec	1-99999 Sec	1-99999 Sec	1-99999 Sec	1-99999 Sec	
Capacity	0.1-19999.9AH/0.1-19999.9WH					
<b>Others</b>						
Load ON Voltage	0.1-25V		0.4-100V	0.1-25V	0.4-100V	
Accuracy	1% of (SETTING + RANGE)					
Load OFF Voltage	0-25V		0-100V	0-25V	0-100V	
Accuracy	0.05% of (SETTING + RANGE)					
Imonitor (Non-isolated)	5.04 A/V	7.02 A/V	1.5 A/V	14.04 A/V	3 A/V	
Current Monitor	Full scale: 10V					
Accuracy	0.5% of (SETTING + RANGE)					
Typical Short Resistance	0.018Ω	0.0169Ω	0.367Ω	0.0053Ω	0.087Ω	
Max. short Current	50A	70A	15A	140A	30A	
Power input	115/230 Vac±10%, 50/60Hz					
Interface (Standard)	USB/RS232					
Power Consumption	40 VA			60 VA		
Dimension (HxWxD)	205 x 123 x 477mm	205 x 123 x 477mm	205 x 123 x 477mm	205 x 231 x 480mm	205 x 231 x 480mm	
Weight	5.3Kg	5.3Kg	5.3Kg	10.3Kg	10.3kg	

## DIMENSIONS



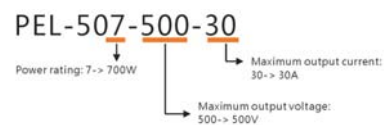
PEL-507-80-140 / PEL-507-500-30



PEL-503-80-50 / PEL-504-80-70 / PEL-504-500-15

## ORDERING INFORMATION

PEL-503-80-50	80V, 50A, 250W DC Electronic Load
PEL-504-80-70	80V, 70A, 350W DC Electronic Load
PEL-504-500-15	500V, 15A, 350W DC Electronic Load
PEL-507-80-140	80V, 140A, 700W DC Electronic Load
PEL-507-500-30	500V, 30A, 700W DC Electronic Load



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