

PEL-3000E Specifications

The specifications apply when the PEL-3000E is powered on for at least 30 minutes under +20°C~+30°C.

Series	PEL-3000E			
Model	PEL-3031E		PEL-3032E	
Power	300W		300W	
Range	Low	High	Low	High
Voltage	0~150V	0~150V	0~500V	0~500V
Current	0~6A	0~60A	0~1.5A	0~15A
Min. Operating Voltage(dc)	1V-6A	1V-60A	2.5V-1.5A	2.5V-15A
Static Mode				
Constant Current Mode				
Range	0~6A	0~60A	0~1.5A	0~15A
Setting Range	0~6.12A	0~61.2A	0~1.53A	0~15.3A
Resolution	0.2mA	2mA	0.05mA	0.5mA
Accuracy	(T ^{*1}) ± (0.1% of set +0.1% of F.S) +Vin/500 kΩ (Full scale of High range)	(T ^{*1}) ± (0.1% of set +0.2% of F.S) +Vin/500 kΩ (Full scale of High range)	(T ^{*1}) ± (0.1% of set +0.1% of F.S) +Vin/500 kΩ (Full scale of High range)	(T ^{*1}) ± (0.1% of set +0.2% of F.S) +Vin/500 kΩ (Full scale of High range)
Constant Resistance Mode				
Range	60S-0.002S(0.01666Ω~500Ω)(300W/15V); 6S-0.0002S(0.1666Ω -5kΩ)(300W/150V)	6S-0.0002S(0.16666Ω~5KΩ)(300W/50V); 0.6S-0.00002S(1.6666Ω -50kΩ)(300W/500V)		
Setting Range	60S-0.002S(0.01666Ω~500Ω)(300W/15V); 6S-0.0002S(0.1666Ω -5kΩ)(300W/150V)	6S-0.0002S(0.16666Ω~5KΩ)(300W/50V); 0.6S-0.00002S(1.6666Ω -50kΩ)(300W/500V)		
Resolution(30000 steps)	0.002S(15V) ; 0.0002S(150V)	0.0002S(50V) ; 0.00002S(500V)		
Accuracy	(T ^{*1}) ± (0.3% of set + 0.6S) + 0.002mS	(T ^{*1}) ± (0.3% of set + 0.06S) + 0.002mS		
Constant Voltage Mode				
Range	1~15V	1~150V	2.5~50V	2.5~500V
Setting Range	0~15.3V	0~153V	0~51V	0~510V
Resolution	0.5mV	5mV	1mV	10mV
Accuracy	(T ^{*1})± (0.1% of set + 0.1% of F.S) (Full scale of Low range)	(T ^{*1})± (0.1% of set + 0.1% of F.S) (Full scale of High range)	(T ^{*1})± (0.1% of set + 0.1% of F.S) (Full scale of Low range)	(T ^{*1})± (0.1% of set + 0.1% of F.S) (Full scale of High range)
Constant Power Mode				
Range	0W-30W(6A)	0W-300W(60A)	0W-30W(1.5A)	0W-300W(15A)
Setting Range	0W-30.6W	0W-306W	0W-30.6W	0W-306W
Resolution	1mW	10mW	1mW	10mW
Accuracy	(T ^{*1})±(0.6 % of set + 1.4 % of f.s (Full scale of H range)) + Vin^2/500 kΩ	(T ^{*1})±(0.6 % of set + 1.4 % of f.s (Full scale of H range)) + Vin^2/500 kΩ		
Dynamic Mode				
General				
T1& T2	0.05mS - 30mS / Res : 1uS; 30mS - 30S / Res : 1mS		0.05mS - 30mS / Res : 1uS; 30mS - 30S / Res : 1mS	
Accuracy	1uS / 1ms ± 200ppm		1uS / 1ms ± 200ppm	
Slew Rate (Accuracy 10%)	0.001~0.25A/uS	0.01~2.5A/uS	0.25mA~62.5mA/uS	2.5mA~625mA/uS
Slew Rate Resolution	0.001A/uS	0.01A/uS	0.25mA/uS	2.5mA/uS
Slew Rate Accuracy of Setting	±(10% + 15us)		±(10% + 15us)	
	* Time to reach from 10% to 90% when the current is varied from 2% to 100% (20% to 100% in L range) of the rated current.			
Constant Current Mode				
Current	0~6A	0~60A	0~1.5A	0~15A
Setting range	0~6.12A	0~61.2A	0~1.53A	0~15.3A

Current Resolution	0.2mA	2mA	0.05mA	0.5mA
Current Accuracy	±0.8% F.S.		±0.8% F.S.	
Constant Resistance Mode				
Range	60S-0.002S(0.01666Ω~500Ω)(300W/15V); 6S-0.0002S(0.1666Ω -5kΩ)(300W/150V)	6S-0.0002S(0.16666Ω~5KΩ)(300W/50V); 0.6S-0.00002S(1.6666Ω -50kΩ)(300W/500V)		
	6S-0.0002S(0.1666Ω~500Ω)(300W/15V); 6S-0.0002S(0.1666Ω -5kΩ)(300W/150V)	6S-0.0002S(0.16666Ω~5KΩ)(300W/50V); 0.6S-0.00002S(1.6666Ω -50kΩ)(300W/500V)		
Setting Range	60S-0.002S(0.01666Ω~500Ω)(300W/15V); 6S-0.0002S(0.1666Ω -5kΩ)(300W/150V)	6S-0.0002S(0.16666Ω~5KΩ)(300W/50V); 0.6S-0.00002S(1.6666Ω -50kΩ)(300W/500V)		
Resistance Resolution	30000 steps		30000 steps	
Resistance Accuracy	(T ⁻¹)±(1% of set + 0.6S) + 0.002mS		(T ⁻¹)±(1% of set + 0.06S) + 0.002mS	
Measurement				
Voltage Readback				
Range	0~15V	0~150V	0~50V	0~500V
Resolution	0.5mV	5mV	2mV	20mV
Accuracy	(T ⁻¹)± (0.1% of rdg + 0.1% of F.S)	(T ⁻¹)± (0.1% of rdg + 0.1% of F.S)	(T ⁻¹)± (0.1% of rdg + 0.1% of F.S)	(T ⁻¹)± (0.1% of rdg + 0.1% of F.S)
	(Full scale of Low range)	(Full scale of High range)	(Full scale of Low range)	(Full scale of High range)
Current Readback				
Range	0~6A	0~60A	0~1.5A	0~15A
Resolution	0.2mA	2mA	0.05mA	0.5mA
Accuracy	(T ⁻¹)± (0.1% of rdg + 0.1% of F.S)	(T ⁻¹)± (0.1% of rdg + 0.2% of F.S)	(T ⁻¹)± (0.1% of rdg + 0.1% of F.S)	(T ⁻¹)± (0.1% of rdg + 0.2% of F.S)
	(Full scale of High range)	(Full scale of High range)	(Full scale of High range)	(Full scale of High range)
General				
Function				
Trigger In/Out terminal (BNC)		YES		YES
Current monitor output		YES		YES
Analog External Control		YES		YES
Soft Start		YES		YES
SEQUENCE (Normal/Fast)		YES		YES
BATT Test Automation		YES		YES
OCP autotest function		YES		YES
OPP autotest function		YES		YES
PRESET DATA		10 Sets		10 Sets
PROTECTION		OCP, OPP, UVP, OVP, OTP, RVP		OCP, OPP, UVP, OVP, OTP, RVP
Other				
POWER SOURCE	100-120VAC/ 200-240VAC, 47-63Hz		100-120VAC/ 200-240VAC, 47-63Hz	
Interface	USB, GPIB/LAN(Option), Analog external control		USB, GPIB/LAN(Option), Analog external control	
Dimensions & Weight	213.8(W) x 124.0(H) x 400.5(D)mm, Approx. 7.5Kg		213.8(W) x 124.0(H) x 400.5(D)mm, Approx. 7.5Kg	

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