





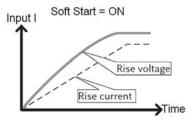


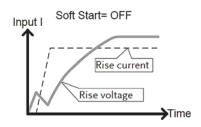


GW Instek launches new PEL-3000E series programmable single-channel electronic load. In the series, PEL-3031E provides 300W (1V~150V/60A) and PEL-3032E provides 300W (2.5V~500V/15A) current sink capability. Inherited from the PEL-3000 series, PEL-3031E has an easy-to-read LCD panel and user-friendly interface. This model features high speed and accurate measurement capability for electronic component, battery, portable charger and power products that require low to medium power consumption.

PEL-3000E series is not only ideal for charger/adaptor manufacturers with the requirements of over 60mA constant current load and measurement applications, but also for manufacturers of various power supply components and portable charging devices which demand the standby power consumption greater than 60mA. For manufacturers who require charger/adaptor with the constant current load and measurement applications lower than 60mA, we recommend the PEL-3000 series which has three current levels to meet low power consumption application requirements.

SOFT START





The soft start setting is used to limit the amount of input current at start-up. It can increase test reliability & stability.

SEQUENCE FUNCTION



When operating the Sequence Function, PEL-3031E follows the time and load settings of step1, step2, step3, etc. so as to realize different load current variation.



Ramp function of PEL-3000E is able to set the current transition. When turned on. the current takes on a slope form; when turned off, the current takes on a step form.

PEL- 3000E Series

FEATURES

- 1~150V(PEL-3031E)Min. Operating Voltage(dc):1V at 60A, 0.5V at 30A 2.5~500V(PEL-3032E)Min. Operating Voltage(dc):2.5V at 15A, 1.25V at 7.5A
- 7 Operating Modes: CC, CV, CR, CP, CC+CV, CR+CV, CP+CV
- Normal Sequence Function: Max Steps: 1000 steps/Step Time:1ms~999h 59min 59s(3599940 sec)Fast Sequence Function: Max Steps:1000 steps/Step Time:25us~600ms
- Soft Start
- BATT Test Automation:Max Test Time:999h: 59min 59s(3599940 sec):Max Test AH:9999.99Ah
- OCP, OPP Test Automation
- Max. Slew Rate: 2.5A/μs
- Dynamic Mode
- Protection: OVP, OCP, OPP, OTP, RVP, UVP
- Remote Sense
- Integrate Voltage, Current and Power **Measurement Functions**
- External Voltage or Resistance Control
- Rear Panel BNC, Trigger IN/OUT
- Analog External Control
- USB/GPIB(Optional)



Rear Panel

APPLICATIONS

- Product's Output Characteristics **Assessment For Power Supplies**
- Battery Discharge Tests

- Quality Verification And Susceptibility **Tests For Electronic Components Such** as Power Switch, Relay, Connector, And Fuse, Etc.
- Diode Characteristics Tests Such as LED
- High Voltage Solar Panel And LED Driver



SPECIFICATION	ONS				
	Model	PEL-3031E		PEL-3032E	
	Power	300W	300W	300W	300W
	Range	Low	High	Low	High
	Voltage	1 ~ 150V 0 ~ 6A	1 ~ 150V 0 ~ 60A	2.5 ~ 500V 0 ~ 1.5A	2.5 ~ 500V 0 ~ 15A
	Current Min. Operating Voltage(dc)	1V ~ 6A	1V ~ 60A	2.5V ~ 1.5A	2.5V ~ 15A
STATIC MODE		17 0/1	17 00/1	2.3 7 1.37	2.57
STATIC MODE	Constant Current Mode Range Setting Range Resolution Accuracy	$0 \sim 6A$ $0 \sim 6.12A$ 0.2mA $(T^*) \pm (0.1\% \text{ of set } +$ $0.1\% \text{ of FS}) + Vin/500k \Omega$ (Full scale of high range)	$0 \sim 60A$ $0 \sim 61.2A$ 2mA $(T^*)\pm (0.1\% \text{ of set} + 0.2\% \text{ of FS}) + Vin/500k \Omega(Full scale of high range)$	$\begin{array}{l} 0 \sim 1.5A \\ 0 \sim 1.53A \\ 0.05 \text{mA} \\ (T^*)_{\pm}(0.1\% \text{ of set } + \\ 0.1\% \text{ of FS}) + \text{Vin/500k} \pmb{\Omega} \\ \text{(Full scale of high range)} \end{array}$	$\begin{array}{l} 0\sim15A\\ 0\sim15.3A\\ 0.5mA\\ (T^{\pm1})\pm(0.1\%\text{ of set }+\\ 0.2\%\text{ of FS})+\text{Vin}/500k}\Omega\\ \text{(Full scale of high range)} \end{array}$
	Constant Resistance Mode Range	$60s \sim 0.002s(0.01666 \Omega \sim 500 \Omega)(300W/15V);$ $6s \sim 0.0002s(0.1666 \Omega \sim 5k \Omega)(300W/150V)$		6s ~ 0.0002s(0.16666 Ω ~ 5k Ω)(300W/50V); 0.6s ~ 0.00002s(1.6666 Ω ~ 50k Ω)(300W/500V)	
	Setting Range Resolution(30000 Steps)	$ \begin{array}{l} 60s \sim 0.002s(0.01666\Omega \sim 500\Omega) (300W/15V); \\ 6s \sim 0.0002s(0.1666\Omega \sim 5k\Omega) (300W/150V) \\ 0.002s(15V); 0.0002s(150V) \end{array} $		6s \sim 0.0002s(0.16666 Ω \sim 5k Ω)(300W/50V); 0.6s \sim 0.00002s(1.6666 Ω \sim 50k Ω)(300W/500V) 0.0002s(50V); 0.00002s(500V)	
	Accuracy	(T*1)±(0.3% of set + 0.6s) + 0.002ms		$(T^{*1})\pm(0.3\% \text{ of set} + 0.06\text{s}) + 0.002\text{ms}$	
	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 Accuracy	0.5mV	5mV	1mV	10mV
	Accuracy	$(T^{*1})\pm(0.1\% \text{ of set} + 0.1\% \text{ of FS})$ (Full scale of Low range)	$(T^{*1})\pm(0.1\% \text{ of set} + 0.1\% \text{ of FS})$ (Full scale of High range)	$(T^{*1})\pm(0.1\% \text{ of set} + 0.1\% \text{ of FS})$ (Full scale of Low range)	$(T^{*1})\pm(0.1\% \text{ of set} + 0.1\% \text{ of FS})$ (Full scale of High range)
	Constant Power Mode	,	, , , , ,	,	
	Range Setting Range Resolution	0W ~ 30W(6A) 0W ~ 30.6W	0W ~ 300W(60A) 0W ~ 306W	0W ~ 30W(1.5A) 0W ~ 30.6W	0W ~ 300W(15A) 0W ~ 306W
	Accuracy	1mW (T*1)±(0.6 % of set + 1.4 % of	10mW of FS (Full scale of H range) ⊦	1mW + Vin∧2/500 k Ω	10mW
DYNAMIC MODE	General	() _ () _			
DANAMIC MODE	T1& T2	0.05ms ~ 30ms/Res:1µs;30r	ms ~ 30s/Res:1ms	0.05ms ~ 30ms/Res:1μs; 30r	ns ~ 30s/Res:1ms
	Accuracy	1μs/1ms±200ppm	1μs/1ms±200ppm	lμs/lms±200ppm	1μs/1ms±200ppm
	Slew Rate (Accuracy 10%)	0.001 ~ 0.25A/μs	0.01 ~ 2.5A/μs	0.25 ~ 62.5mA/μs	2.5 ~ 625mA/μs
	Slew Rate Resolution	0.001Α/μς	0.01A/μs	0.25mA/μs	2.5mA/μs
	Slew Rate Accuracy of Setting	$\pm (10\% + 15\mu s)$ *1 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 Setting Range	0 ~ 6A 0 ~ 6.12A	0 ~ 60A 0 ~ 61.2A	0 ~ 1.5A 0 ~ 1.53A	0 ~ 15A 0 ~ 15.3A
	Current Resolution	0.2mA	2mA	0.05mA	0.5mA
	Current Accuracy	±0.8% FS	±0.8% FS	±0.8% FS	±0.8% FS
	Constant Resistance Mode	CO. 0.002-10.03CCCO. E00.03/2003/1/1510			
	Range	$\begin{array}{l} 60s \sim 0.002s(0.01666\Omega \sim 500\Omega) (300W/15V) \\ 6s \sim 0.0002s(0.1666\Omega \sim 5k\Omega) (300W/150V) \\ 60s \sim 0.002s(0.01666\Omega \sim 500\Omega) (300W/15V) \\ 6s \sim 0.0002s(0.1666\Omega \sim 5k\Omega) (300W/150V) \\ 30000 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$		$\begin{array}{l} 6s \sim 0.0002s(0.16666\Omega \sim 5k\Omega)(300W/50V) \\ 0.6s \sim 0.00002s(1.6666\Omega \sim 50k\Omega)(300W/500V) \\ 6s \sim 0.0002s(0.16666\Omega \sim 5k\Omega)(300W/50V) \\ 0.6s \sim 0.00002s(1.6666\Omega \sim 50k\Omega)(300W/500V) \\ 30000 \ steps \\ (T^*1) \pm (1\%set + 0.06s) + 0.002ms \end{array}$	
	Setting Range				
	Resistance Resolution				
	Resistance Accuracy				
MEASUREMENT	Voltage Readback Range Resolution	0 ~ 15V	0 ~ 150V	0 ~ 50V	0 ~ 500V
	Accuracy	0.5mV (T*1)±(0.1% of rdg+0.1% of FS)	5mV (T*1)±(0.1% of rdg+0.1% of FS)	2mV (T*1)±(0.1% of rdg+0.1% of FS)	20mV (T*1)±(0.1% of rdg+0.1% of FS)
	riccuracy	(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 FS)	(T*1)±(0.1% of rdg+0.2% of FS)	(T*1)±(0.1% of rdg+0.1% of FS)	(T*1)±(0.1% of rdg+0.2% of FS)
	Power Read back H&L Range CP Mode L Range	(Full scale of High range) 0 ~ 300W 0 ~ 30W	(Full scale of High range) 0 ~ 300W 0 ~ 30W	(Full scale of High range) 0 ~ 300W 0 ~ 30W	(Full scale of High range) 0 ~ 300W 0 ~ 30W
FUNCTION	Sequence(Normal/Fast)	Normal sequence function: Max steps: 1000 steps/Step time: 1ms ~ 999h 59min 59s(3599940 sec)			
	BATT Test Automation		steps: 1000 steps/Step time: 2		,
		Max test AH: 9999.99Ah OCP Autotest function, OPP Autotest Function			
	Test Function				
	Soft Start Yes In/Out Terminal Analog External Control, Current Monitor Output, Trigger In/Out Terminal(BNC)				
Preset Data 10 Sets				out reminiar(DIVC)	
	Protection	OCP, OPP, UVP, OVP, OTP, RVP			
OTHER	Power Source	100 ~ 120VAC/200 ~ 240VAC, 47 ~ 63Hz			
	Interface Dimensions & Weight	USB, GPIB(Option), Analog of 213.8(W) x 124.0(H) x 400.5(
	iciisions & weignt	5.5(17) \ 127.5(11) \ 700.5(-,, Approx. 7.3Ng		

Dimensions & Weight 213.8(W) x 124.0(H) x 400.5(D)mm, Approx. 7.5Kg

Note: *1 - If the ambient temperature is over 30 °C or below 20 °C, then T = ± | t - 25 °C | x 100ppm/°C x Set If the ambient temperature is in the range of 20°C-30°C, then T = 0 (t is the ambient temperature)

Specifications subject to change without notice. EL-3000EGD2DS-2018.04-2000

ORDERING INFORMATION

PEL-3031E 150V/60A/300W Programmable Single-channel D.C. Electronic Load **PEL-3032E** 500V/15A/300W Programmable Single-channel D.C. Electronic Load

ACCESSORIES

Quick Start Guide, CD ROM (User Manual, Programming Manual)x1, Power Cord(Region dependent), Front Terminal Washers-spring Washer(M6)x2, GTL-105A Remote Sense Cables (Red x 1, Black x 1)

Global Headquarters

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GTL-248

GTL-246

PEL-010

PEL-004



GPIB cable, 2.0m USB cable, Type A – Type B

Dust Filter

GRA-414-J Rack Mount Kit(JIS) GRA-414-E Rack Mount Kit(EIA)

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