



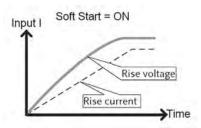


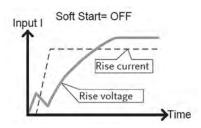


GW Instek launches new PEL-3000E series programmable single-channel electronic load. In the series, PEL-3031E provides 300W (1V~150V/60A) and PEL-3032E provides 300W (2.5V~500V/15A) current sink capability. Inherited from the PEL-3000 series, PEL-3031E has an easy-to-read LCD panel and user-friendly 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



SPECIFICATIO	SPECIFICATIONS					
	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 V	oltage(dc)	1V ~ 6A	1V ~ 60A	2.5V ~ 1.5A	2.5V ~ 15A
STATIC MODE	FATIC MODE Constant Current Mode		., .,	., .	2.5 7 1.57 .	2.57
STATIC MODE	Range		0 ~ 6A	0 ~ 60A	0 ~ 1.5A	0 ~ 15A
	Setting Range Resolution Accuracy		0 ~ 6.12A	0 ~ 61.2A	0~1.53A	0 ~ 15.3A
			0.2mA (T*1)±(0.1% of set +	2mA (T*1)±(0.1% of set +	0.05mA (T*1)±(0.1% of set +	0.5mA (T*1)±(0.1% of set +
			0.1% of FS) +Vin/500k Ω	0.2% of FS)+Vin/500k Ω	0.1% of FS) +Vin/500k Ω	0.2% of FS)+Vin/500k Ω
			(Full scale of high range)	(Full scale of high range)	(Full scale of high range)	(Full scale of high range)
	Constant Resistance Mode Range Setting Range Resolution(30000 Steps)					
			$60s \sim 0.002s(0.01666\Omega \sim 500\Omega)(300W/15V);$		$6s \sim 0.0002s(0.16666\Omega \sim 5k\Omega)(300W/50V);$	
			6s ~ 0.0002s(0.1666 Ω ~ 5k Ω)(300W/150V) 60s ~ 0.002s(0.01666 Ω ~ 500 Ω)(300W/15V);		$0.6s \sim 0.00002s(1.6666\Omega \sim 50k\Omega)(300W/500V)$ $6s \sim 0.0002s(0.16666\Omega \sim 5k\Omega)(300W/50V)$;	
			$6s \sim 0.002s(0.01666\Omega \sim 5k\Omega)(300W/150V)$		$0.6s \sim 0.00002s(1.6666\Omega \sim 50k\Omega)(300W/500V)$	
			0.002s(15V); 0.0002s(150V)		0.0002s(50V); 0.00002s(500V)	
	Accuracy Constant Voltage Mode Range Setting Range Resolution		$(T^{*1})\pm(0.3\% \text{ of set} + 0.6s) + 0.002ms$		$(T^{*1})\pm(0.3\% \text{ of set} + 0.06s) + 0.002ms$	
			1 ~ 15V	1 ~ 150V	2.5 ~ 50V	2.5 ~ 500V
			0 ~ 15.3V	0 ~ 153V	0 ~ 51V	0 ~ 510V
			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		,	`	,	,
			0W ~ 30W(6A) 0W ~ 30.6W	0W ~ 300W(60A) 0W ~ 306W	0W ~ 30W(1.5A) 0W ~ 30.6W	0W ~ 300W(15A) 0W ~ 306W
	Resolution		1mW	10mW	1mW	10mW
	Accuracy		(T*1)±(0.6 % of set + 1.4 % of	of FS (Full scale of H range) +	⊦ Vin∧2/500 k Ω	
DYNAMIC MODE	General					
	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	1μs/1ms±200ppm	1μs/1ms±200ppm
	Slew Rate (Acc	, ,	0.001 ~ 0.25A/μs	0.01 ~ 2.5A/μs	0.25 ~ 62.5mA/μs	2.5 ~ 625mA/μs
	Slew Rate Resolution		0.001A/μs	0.01A/μs	0.25mA/μs	2.5mA/μs
	Slew Rate Accuracy of Setting Constant Current Mode Current Setting Range Current Resolution Current Accuracy Constant Resistance Mode Range Setting Range		$\pm (10\% + 15\mu s)$ *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.			
			0 ~ 6A 0 ~ 6.12A	0 ~ 60A 0 ~ 61.2A	0 ~ 1.5A 0 ~ 1.53A	0 ~ 15A 0 ~ 15.3A
			0.2mA	2mA	0.05mA	0.5mA
			±0.8% FS	±0.8% FS	±0.8% FS	±0.8% FS
			_	_		
			$60s \sim 0.002s(0.01666\Omega \sim 500\Omega)(300W/15V)$		$6s \sim 0.0002s(0.16666\Omega \sim 5k\Omega)(300W/50V)$	
			6s ~ 0.0002s(0.1666 Ω ~ 5k Ω) (300W/150V) 60s ~ 0.002s(0.01666 Ω ~ 500 Ω) (300W/15V)		0.6s ~ 0.00002s(1.6666 Ω ~ 50k Ω)(300W/500V) 6s ~ 0.0002s(0.16666 Ω ~ 5k Ω)(300W/50V)	
			$6s \sim 0.0002s(0.1666\Omega \sim 5k\Omega)(300W/150V)$		$0.6s \sim 0.00002s(1.6666\Omega \sim 50k\Omega)(300W/500V)$	
	Resistance Resolution		30000 steps		30000 steps	
	Resistance Accuracy		$(T^{*1})\pm(1\%\text{set}+0.6\text{s})+0.002\text{ms}$		$(T^{*1})\pm(1\%\text{set}+0.06\text{s})+0.002\text{ms}$	
MEASUREMENT	Voltage Readback	•	0 ~ 15V	0 ~ 150V	0 ~ 50V	0 ~ 500V
		Resolution	0.5mV	5mV	2mV	20mV
		Accuracy	(T*1)±(0.1% of rdg+0.1% of FS)	(T*1)±(0.1% of rdg+0.1% of FS)	(T*1)±(0.1% of rdg+0.1% of FS)	(T*1)±(0.1% of rdg+0.1% of FS)
	C	Daw	(Full scale of Low range)	(Full scale of High range)	(Full scale of Low range)	(Full scale of High range)
	Current Readback	Range Resolution	0 ~ 6A 0.2mA	0 ~ 60A	0 ~ 1.5A 0.05mA	0 ~ 15A
		Accuracy	(T*1)±(0.1% of rdg+0.1% of FS)	2mA (T*1)±(0.1% of rdg+0.2% of FS)	(T*1)±(0.1% of rdg+0.1% of FS)	0.5mA $(T^{*1})\pm(0.1\% \text{ of rdg}+0.2\% \text{ of FS})$
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	(Full scale of High range)	(Full scale of High range)	(Full scale of High range)	(Full scale of High range)
	Power Read back	H&L Range	0 ~ 300W	0 ~ 300W	0 ~ 300W	0 ~ 300W
	CP Mode L Range	2	0 ~ 30W	0 ~ 30W	0 ~ 30W	0 ~ 30W
FUNCTION	Sequence(Normal/Fast)		Normal sequence function: Max steps: 1000 steps/Step time: 1ms ~ 999h 59min 59s (3599940 sec)			
	RATT Test Automation		Fast sequence function: Max steps: 1000 steps/Step time: 25us ~ 600ms			
	BATT Test Automation		Max test time: 999h: 59m: 59s (3599940sec) Max test AH: 9999.99Ah			
	Test Function Soft Start In/Out Terminal Preset Data Protection		OCP Autotest function, OPP Autotest Function			
			Yes			
			Analog External Control, Current Monitor Output, Trigger In/Out Terminal (BNC) 10 Sets			
			OCP, OPP, UVP, OVP, OTP, RVP			
OTHER	Power Source		100 ~ 120VAC/200 ~ 240VAC, 47 ~ 63Hz			
	Interface		USB, GPIB(Option), Analog control			
Dimensions & Weight			213.8(W) x 124.0(H) x 400.5(D) mm, Approx. 7.5Kg			
				no o Cracifications ou	biect to change without notice.	EL 2000ECD2DC 2010 04 2000

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

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)

WIDA GENERAL TRADING L.L.C

ADDRESS: NO. 201 GREEN CORNER BLDG. AL JAZEIRA ST., AL RIGGA RD. **DUBAL PO BOX 171315 UNITED ARAB EMIRATES** PHONE: +971 4 2959818 FAX: +971 4 2501223 E-MAIL: SALES@WIDACO.COM











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)

GPIB option

