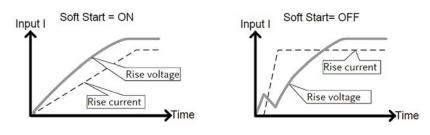
PROGRAMMABLE SINGLE-CHANNEL D.C. ELECTRONIC LOAD



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.

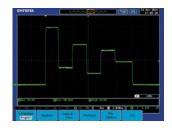
PEL-3000E series is not only ideal for charger/adaptor manufacturers with the requirements of over 60mA constant current load and measurement applications, but also for manufacturers of various power supply components and portable charging devices which demand the standby power consumption greater than 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
- Fast/Normal Sequence Function
- Soft Start
- Battery Discharge Test
- 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



PEL-3000E Series

	Model	PEL-3031E		PEL-3032E	
	Power	300W	300W	300W	300W
	Range	Low	High	Low	High
	Voltage	1 ~ 150V	1 ~ 150V	2.5 ~ 500V	2.5 ~ 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	0 60	0 604	0 1 5 4	0 154
	Range Setting Range	0 ~ 6A 0 ~ 6.12A	0 ~ 60A 0 ~ 61.2A	0 ~ 1.5A 0 ~ 1.53A	0 ~ 15A 0 ~ 15.3A
	Resolution	0.2mA	2mA	0.05mA	0.5mA
	Accuracy	$(T^{*1}) \pm (0.1\% \text{ of set } +$	$(T^{*1}) \pm (0.1\% \text{ of set } +$	(T*1)±(0.1% of set + 0.1% of F.S)+Vin/500k Ω	$(T^{*1}) \pm (0.1\% \text{ of set } +$
		0.1% of F.S) +Vin/500k Ω (Full scale of high range)	0.2% of F.S)+Vin/500k Ω (Full scale of high range)	(Full scale of high range)	0.2% of F.S)+Vin/500kΩ (Full scale of high range)
	Constant Resistance Mode	(**************************************	(run seule of high runge)	((run seule of high runge)
	Range	$\begin{array}{l} 60S \sim 0.002S \left(0.01666 \Omega \sim 500 \Omega \right) \left(300W / 15V \right) ; \\ 6S \sim 0.0002S \left(0.1666 \Omega \sim 5k \Omega \right) \left(300W / 150V \right) \end{array}$		$ \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) \end{array} \end{array} $	
	Setting Range	$60S \sim 0.002S(0.01666 \Omega \sim 50)$ 6S ~ 0.0002S(0.1666 Ω ~ 5k)		$\begin{array}{l} 6S \sim 0.0002S(0.16666 \mathbf{\Omega} \sim 5 k \mathbf{\Omega} \) (300W/50V) \ ; \\ 0.6S \sim 0.00002S(1.6666 \mathbf{\Omega} \sim 50 k \mathbf{\Omega} \) (300W/500V) \\ 0.0002S(50V) \ ; \ 0.00002S(500V) \\ (\mathbf{T}^{+1}) \pm (0.3\% \ of \ set + 0.06S) + 0.002mS \end{array}$	
	Resolution(30000 Steps)	0.002S(15V) ; 0.0002S(150V)			
	Accuracy	(T*1)±(0.3% of set + 0.6S) +			
	Constant Voltage Mode		3 350/	2.5.50/	2.5 5001
	Range Setting Range	1 ~ 15V 0 ~ 15.3V	1 ~ 150V 0 ~ 153V	2.5 ~ 50V 0 ~ 51V	2.5 ~ 500V 0 ~ 510V
	Resolution	0.5mV	5mV	lmV	10mV
	Accuracy	$(T^{*1}) \pm (0.1\% \text{ of set} + 0.1\% \text{ of F.S})$	(T*1)±(0.1% of set + 0.1% of F.S)	(T*1)±(0.1% of set + 0.1% of F.S)	(T*1)±(0.1% of set + 0.1% of
	Constant Power Mode	(Full scale of Low range)	(Full scale of High range)	(Full scale of Low range)	(Full scale of High range
	Range	0W ~ 30W(6A)	0W ~ 300W(60A)	0W ~ 30W(1.5A)	0W ~ 300W(15A)
	Setting Range Resolution	0W~30.6W	0W ~ 306W	0W ~ 30.6Ŵ	0W ~ 306W
	Accuracy	1mW	10mW	1mW	10mW
		$(1^{-1}) \pm (0.6 \% \text{ of set} + 1.4 \% \text{ of})$	of f.s (Full scale of H range))	+ VIN/2/300 K12	
DYNAMIC MODE	General 0.05mS ~ 30mS/Res : 1μS; 30mS ~ 30S/Res : 1mS		0mm 5 205 / Dec + 1mm 5	0.05mc 20mc /Page 1.05	20ma 6 206 / Dag + 1ma 6
			,	0.05mS ~ 30mS/Res : 1µS;	30mS ~ 30S/Res : 1mS
	Accuracy	1μS/1mS ± 200ppm 0.001 ~ 0.25A/μS	1μS/1mS ± 200ppm 0.01 ~ 2.5A/μS	1μS/1mS ± 200ppm 0.25 ~ 62.5mA/μS	1μS/1mS ± 200ppm 2.5 ~ 625mA/μS
	Slew Rate (Accuracy 10%) Slew Rate Resolution	0.001~0.25Α/μS 0.001Α/μS	0.01~2.5Α/μ3 0.01Α/μS	0.25 ~ 02.5mA/μS 0.25mA/μS	2.5mA/μS
	Slew Rate Accuracy of	$\pm(10\% + 15\mu s)$	0.017/µ3	0.25111 () µ5	2.5117 (µ5
	Setting	*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			0.154	0.154
	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% F.S.	±0.8% F.S.	±0.8% F.S.	±0.8% F.S.
	Constant Resistance Mode				
		606 0 000 C 0 01 C C 0	(100) (200) (15)	$6S \sim 0.0002S(0.16666\Omega \sim 5k\Omega)(300W/50V)$	
	Range	60S ~ 0.002S (0.01666 Ω ~ 50			
		6S ~ 0.0002S (0.1666 Ω ~ 5k	Ω)(300W/150V)	0.6S ~ 0.00002S(1.6666Ω ~ !	50k̂ Ω)(300₩/500V)
	Range Setting Range	6S ~ 0.0002S(0.1666 Ω ~ 5k 60S ~ 0.002S(0.01666 Ω ~ 5k	Ω) (300W/150V)´ 20 Ω) (300W/15V)	0.6S ~ 0.00002S(1.6666 Ω ~ 5 6S ~ 0.0002S(0.16666 Ω ~ 5k	50k̂
		$ \begin{array}{l} 6S \sim 0.0002S(0.1666 \mbox{Ω} \sim 5k; \\ 60S \sim 0.002S(0.01666 \mbox{Ω} \sim 5k; \\ 6S \sim 0.0002S(0.1666 \mbox{Ω} \sim 5k; \\ 30000 \mbox{ steps} \end{array} $	Ω) (3ὸοΨ/1̈́5ον)΄ ϿοΩ) (3οοΨ/15ν) Ω) (3οοΨ/15ον)	$0.65 \sim 0.00002S(1.6666 \Omega \sim 3)$ $6S \sim 0.0002S(0.16666 \Omega \sim 5)k$ $0.6S \sim 0.00002S(1.6666 \Omega \sim 3)$ 30000 steps	50k̂Ω) (300W/500V) Ω) (300W/50V) 50kΩ) (300W/500V)
	Setting Range	$ \begin{array}{l} 6S \sim 0.0002S (0.1666 \Omega \sim 5k) \\ 60S \sim 0.002S (0.01666 \Omega \sim 5k) \\ 6S \sim 0.0002S (0.1666 \Omega \sim 5k) \end{array} $	Ω) (3ὸοΨ/1̈́5ον)΄ ϿοΩ) (3οοΨ/15ν) Ω) (3οοΨ/15ον)	$\begin{array}{l} 0.65 \sim 0.00002 \mbox{$(1.6666 \Omega \sim $)$} \\ 65 \sim 0.0002 \mbox{$(0.16666 \Omega \sim $)$} \\ 0.65 \sim 0.00002 \mbox{$(1.6666 \Omega \sim $)$} \end{array}$	50k̂Ω) (300W/500V) Ω) (300W/50V) 50kΩ) (300W/500V)
MEASUREMENT	Setting Range Resistance Resolution Resistance Accuracy	$\begin{array}{l} 65 \sim 0.0002 S(0.1666 \Omega \sim 5 k; \\ 60S \sim 0.002 S(0.01666 \Omega \sim 5 k; \\ 6S \sim 0.0002 S(0.1666 \Omega \sim 5 k; \\ 30000 \ steps \\ (T^{-1}) \pm (1\% set + 0.6S) + 0.002 \end{array}$	Ω) (3ὃοω/1'50V)΄ 20Ω) (300₩/15V) Ω) (300₩/150V) 2mS	$\begin{array}{l} 0.65 \sim 0.000025 (1.6666 \Omega \sim 1.5000025 (0.16666 \Omega \sim 1.5000025 (0.16666 \Omega \sim 1.5000000000000000000000000000000000000$	50k Ω) (300w/500∨) Ω) (300w/50∨) 50k Ω) (300w/500∨) I2mS
MEASUREMENT	Setting Range Resistance Resolution	$\begin{array}{l} 6S \sim 0.0002S(0.1666\Omega \sim 5k3\\ 60S \sim 0.002S(0.01666\Omega \sim 5k3\\ 6S \sim 0.0002S(0.1666\Omega \sim 5k3\\ 30000\ steps\\ (T^{*1})\pm(1\%set+0.6S)+0.002\\ 0\sim 15V \end{array}$	Ω) (3ὸοΨ/1̈́5ον)΄ ϿοΩ) (3οοΨ/15ν) Ω) (3οοΨ/15ον)	$0.65 \sim 0.00002S(1.6666 \Omega \sim 3)$ $6S \sim 0.0002S(0.16666 \Omega \sim 5)k$ $0.6S \sim 0.00002S(1.6666 \Omega \sim 3)$ 30000 steps	50k̂Ω) (300W/500V) Ω) (300W/50V) 50kΩ) (300W/500V)
MEASUREMENT	Setting Range Resistance Resolution Resistance Accuracy Voltage Readback Range	$\begin{array}{c} 6S \sim 0.0002S(0.1666\Omega \sim 5k3\\ 60S \sim 0.002S(0.01666\Omega \sim 5k3\\ 60S \sim 0.0002S(0.1666\Omega \sim 5k3\\ 30000\ steps\\ (T^{*1})\pm(1\%set+0.6S)+0.002\\ 0\sim 15V\\ 0.5mV \end{array}$	Ω) (300W/150V) DOΩ) (300W/15V) Ω) (300W/150V) 2mS 0 ~ 150V 5mV	$\begin{array}{l} 0.6S \sim 0.00002S(1.6666 \Omega \sim 3\\ 6S \sim 0.0002S(0.16666 \Omega \sim 5k\\ 0.6S \sim 0.00002S(1.6666 \Omega \sim 3\\ 30000 \ steps \ (T^{*1}) \pm (1\% \ set + 0.06S) + 0.00\\ 0 \sim 50V\\ 2mV \end{array}$	50k Ω) (300W/500V) Ω) (300W/50V) 50k Ω) (300W/500V) 12mS 0 ~ 500V 20mV
MEASUREMENT	Setting Range Resistance Resolution Resistance Accuracy Voltage Readback Range Resolutior	$\begin{array}{l} 6S \sim 0.0002S(0.1666\Omega \sim 5k: \\ 60S \sim 0.002S(0.01666\Omega \sim 5k: \\ 30000 \ steps \ (T^{*1}) \pm (1\%set + 0.6S) + 0.002 \\ 0 \sim 15V \end{array}$	Ω) (300W/150V) 00Ω) (300W/15V) Ω) (300W/150V) 2mS 0~150V	$\begin{array}{l} 0.6S \sim 0.00002S(1.6666 \Omega \sim 3)\\ 6S \sim 0.0002S(0.16666 \Omega \sim 5)\\ 0.6S \sim 0.00002S(1.6666 \Omega \sim 3)\\ 30000 \ steps\\ (T^{*1}) \pm (1\%set + 0.06S) + 0.00\\ 0 \sim 50V \end{array}$	50k Ω) (300W/500V) Ω) (300W/50V) 50k Ω) (300W/500V) 12mS 0 ~ 500V 20mV
MEASUREMENT	Setting Range Resistance Resolution Resistance Accuracy Voltage Readback Range Resolutior	$ \begin{array}{l} 6S \sim 0.0002S(0.1666 \Omega \sim 5k; \\ 60S \sim 0.002S(0.01666 \Omega \sim 5i; \\ 6S \sim 0.002S(0.1666 \Omega \sim 5k; \\ 30000 \ steps \\ (T^{*1})\pm(1\%set+0.6S)+0.002 \\ 0 \sim 15 \lor \\ 0.5m\lor \\ (T^{*1})\pm(0.1\% \ ofrdg+0.1\% \ of F.S) \end{array} $	Ω) (3òow/150V)´ 20Ω) (300W/15V) Ω)(300W/150V) 2mS 0 ~ 150V 5mV (T*1)±(0.1% of rdg+0.1% of F.S)	$\begin{array}{l} 0.6S \sim 0.00002S(1.6666 \ensuremath{\Omega}\xspace \sim 5k\\ 6S \sim 0.0002S(0.16666 \ensuremath{\Omega}\xspace \sim 5k\\ 0.6S \sim 0.00002S(1.6666 \ensuremath{\Omega}\xspace \sim 5k\\ 30000 \mbox{ steps} \ensuremath{(T^*1)\pm(1\%\mbox{step}\xspace + 0.06S)\xspace + 0.00\\ 0 \sim 50V\\ 2mV \ensuremath{(T^*1)\pm(0.1\%\mbox{ of }rdg+0.1\%\mbox{ of }F.S)\ensuremath{)} \end{array}$	50k Ω) (300W/500V) Ω) (300W/50V) 50k Ω) (300W/500V) 12mS 0 ~ 500V 20mV (T*1)±(0.1% of rdg+0.1% of F.
MEASUREMENT	Setting Range Resistance Resolution Resistance Accuracy Voltage Readback Range Resolution Accuracy Current Readback Range Resolution	$ \begin{array}{l} 6S \sim 0.0002S(0.1666\Omega\sim 5k; \\ 60S \sim 0.002S(0.01666\Omega\sim 5k; \\ 6S \sim 0.002S(0.1666\Omega\sim 5k; \\ 30000 \ steps \\ (T^{*1})\pm(1\%set+0.6S)+0.002 \\ 0 \sim 15V \\ 0.5mV \\ (T^{*1})\pm(0.1\%\ of\ rdg+0.1\%\ of\ F.S) \\ (Full \ scale \ of\ Low\ range) \\ 0 \sim 6A \end{array} $	$\begin{array}{l} \Omega \) (300W/150V)^{'} \\ \Omega \Omega \) (300W/15V) \\ \Omega \) (300W/150V) \\ \end{array} \\ 2mS \\ 0 \sim 150V \\ 5mV \\ (T^{*1}) \pm (0.1\% \ of \ rdg + 0.1\% \ of \ F.S) \\ (Full \ scale \ of \ High \ range) \end{array}$	$\begin{array}{l} 0.6S \sim 0.00002S(1.6666\Omega \sim 58\\ 6S \sim 0.0002S(0.16666\Omega \sim 58\\ 0.6S \sim 0.00002S(1.6666\Omega \sim 58\\ 30000 \ steps\\ (T^{*1})\pm(1\%set+0.06S)+0.00\\ 0 \sim 50V\\ 2mV\\ (T^{*1})\pm(0.1\% \ of \ rdg+0.1\% \ of \ F.S)\\ (Full \ scale \ of \ Low \ range)\\ 0 \sim 1.5A\\ 0.05 mA \end{array}$	50k Ω) (300W/500V) Ω) (300W/50V) 50k Ω) (300W/500V) 12mS 0 ~ 500V 20mV (T ^{*1})±(0.1% of rdg+0.1% of F. (Full scale of High range)
MEASUREMENT	Setting Range Resistance Resolution Resistance Accuracy Voltage Readback Range Resolution Accuracy Current Readback Range	$ \begin{array}{l} 6S \sim 0.0002S(0.1666\Omega\sim 5k; \\ 60S \sim 0.002S(0.1666\Omega\sim 5k; \\ 30000\ steps \\ (T^{*1})\pm(1\%set+0.6S)+0.002 \\ 0 \sim 15V \\ 0.5mV \\ (T^{*1})\pm(0.1\%\ of\ rdg+0.1\%\ of\ F.S) \\ (Full scale\ of\ Low\ range) \\ 0 \sim 6A \\ 0.2mA \\ (T^{*1})\pm(0.1\%\ of\ rdg+0.1\%\ of\ F.S) \end{array} $	$ \begin{aligned} \Omega \) (300W/150V)' \\ D \Omega \) (300W/15V) \\ \Omega \) (300W/150V) \\ 2mS \\ \hline 0 ~ 150V \\ 5mV \\ (T^{1}) \pm (0.1\% \text{ of } rdg + 0.1\% \text{ of } F.S) \\ (Full scale of High range) \\ 0 ~ 60A \\ 2mA \\ (T^{*1}) \pm (0.1\% \text{ of } rdg + 0.2\% \text{ of } F.S) \end{aligned} $	$\begin{array}{l} 0.6S \sim 0.00002S(1.6666\Omega \sim 58\\ 6S \sim 0.0002S(0.16666\Omega \sim 58\\ 0.6S \sim 0.00002S(1.6666\Omega \sim 58\\ 30000 \mbox{ steps}\\ (T^{*1})\pm(1\%set+0.06S)+0.00\\ 0\sim 50V\\ 2mV\\ (T^{*1})\pm(0.1\% \mbox{ of } rdg+0.1\% \mbox{ of } F.S)\\ (Full \mbox{ scale of Low range})\\ 0\sim 1.5A\\ 0.05mA\\ (T^{*1})\pm(0.1\% \mbox{ of } rdg+0.1\% \mbox{ of } F.S)\\ \end{array}$	$ \begin{aligned} & 50\dot{k} \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$
MEASUREMENT	Setting Range Resistance Resolution Resistance Accuracy Voltage Readback Range Resolution Accuracy Current Readback Range Resolution	$\begin{array}{c} 6S \sim 0.0002S(0.1666\Omega\sim 5k;\\ 60S \sim 0.002S(0.1666\Omega\sim 5k;\\ 6S \sim 0.002S(0.1666\Omega\sim 5k;\\ 30000 \ steps\\ (T^{*1})\pm(1\%set+0.6S)+0.002\\ 0 \sim 15V\\ 0.5mV\\ (T^{*1})\pm(0.1\%\ of\ rdg+0.1\%\ of\ F.S)\\ (Full scale \ of\ Low\ range)\\ 0 \sim 6A\\ 0.2mA\\ \end{array}$	$\begin{array}{l} \Omega \)(\dot{3}\dot{0}0W/150V)'\\ 00\Omega \)(300W/15V)\\ \Omega \)(300W/150V)\\ \end{array}$ $\begin{array}{l} \Omega \ \sim 150V\\ 5mV\\ (T^{s1})\pm(0.1\% \ of \ rdg+0.1\% \ of \ F.S)\\ (Full scale \ of \ High \ range)\\ 0 \ \sim 60A\\ 2mA \end{array}$	$\begin{array}{l} 0.6S \sim 0.00002S(1.6666\Omega \sim 58\\ 6S \sim 0.0002S(0.16666\Omega \sim 58\\ 0.6S \sim 0.00002S(1.6666\Omega \sim 58\\ 30000 \ steps\\ (T^{*1})\pm(1\%set+0.06S)+0.00\\ 0 \sim 50V\\ 2mV\\ (T^{*1})\pm(0.1\% \ of \ rdg+0.1\% \ of \ F.S)\\ (Full \ scale \ of \ Low \ range)\\ 0 \sim 1.5A\\ 0.05 mA \end{array}$	50k Ω) (300W/500V) Ω) (300W/50V) 50k Ω) (300W/500V) 12mS 0 ~ 500V 20mV (T ^{*1})±(0.1% of rdg+0.1% of F. (Full scale of High range) 0 ~ 15A 0.5mA
MEASUREMENT	Setting Range Resistance Resolution Resistance Accuracy Voltage Readback Range Resolution Accuracy Current Readback Range Resolution	$\begin{array}{l} 6S \sim 0.0002S(0.1666\Omega\sim 5k;\\ 60S \sim 0.002S(0.01666\Omega\sim 5k;\\ 6S \sim 0.0002S(0.1666\Omega\sim 5k;\\ 30000steps\\ (T^{*1})\pm(1\%set+0.6S)+0.002\\ 0\sim 15V\\ 0.5mV\\ (T^{*1})\pm(0.1\%ofrdg+0.1\%ofF.S)\\ (Full scale of Low range)\\ 0\sim 6A\\ 0.2mA\\ (T^{*1})\pm(0.1\%ofrdg+0.1\%ofF.S)\\ (Full scale ofHighrange)\\ \end{array}$	$ \begin{aligned} \Omega \) (300W/150V)' \\ D \Omega \) (300W/15V) \\ \Omega \) (300W/150V) \\ 2mS \\ \hline 0 ~ 150V \\ 5mV \\ (T^{1}) \pm (0.1\% \text{ of } rdg + 0.1\% \text{ of } F.S) \\ (Full scale of High range) \\ 0 ~ 60A \\ 2mA \\ (T^{*1}) \pm (0.1\% \text{ of } rdg + 0.2\% \text{ of } F.S) \end{aligned} $	$\begin{array}{l} 0.6S \sim 0.00002S(1.6666\Omega \sim 58\\ 6S \sim 0.0002S(0.16666\Omega \sim 58\\ 0.6S \sim 0.00002S(1.6666\Omega \sim 58\\ 30000 \mbox{ steps}\\ (T^{*1})\pm(1\%set+0.06S)+0.00\\ 0\sim 50V\\ 2mV\\ (T^{*1})\pm(0.1\% \mbox{ of } rdg+0.1\% \mbox{ of } F.S)\\ (Full \mbox{ scale of Low range})\\ 0\sim 1.5A\\ 0.05mA\\ (T^{*1})\pm(0.1\% \mbox{ of } rdg+0.1\% \mbox{ of } F.S)\\ \end{array}$	$ \begin{aligned} & 50\dot{k} \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$
	Setting Range Resistance Resolution Resistance Accuracy Voltage Readback Range Resolutior Accuracy Current Readback Range Resolutior Accuracy	$\begin{array}{l} 6S \sim 0.0002S(0.1666\Omega\sim 5k;\\ 60S \sim 0.002S(0.01666\Omega\sim 5k;\\ 6S \sim 0.0002S(0.1666\Omega\sim 5k;\\ 30000steps\\ (T^{*1})\pm(1\%set+0.6S)+0.002\\ 0\sim 15V\\ 0.5mV\\ (T^{*1})\pm(0.1\%ofrdg+0.1\%ofF.S)\\ (Full scale of Low range)\\ 0\sim 6A\\ 0.2mA\\ (T^{*1})\pm(0.1\%ofrdg+0.1\%ofF.S)\\ (Full scale ofHighrange)\\ \end{array}$	$ \begin{aligned} \Omega \) (300W/150V)' \\ D \Omega \) (300W/15V) \\ \Omega \) (300W/150V) \\ 2mS \\ \hline 0 ~ 150V \\ 5mV \\ (T^{1}) \pm (0.1\% \text{ of } rdg + 0.1\% \text{ of } F.S) \\ (Full scale of High range) \\ 0 ~ 60A \\ 2mA \\ (T^{*1}) \pm (0.1\% \text{ of } rdg + 0.2\% \text{ of } F.S) \end{aligned} $	$\begin{array}{l} 0.6S \sim 0.00002S(1.6666\Omega \sim 58\\ 6S \sim 0.0002S(0.16666\Omega \sim 58\\ 0.6S \sim 0.00002S(1.6666\Omega \sim 58\\ 30000 \mbox{ steps}\\ (T^{*1})\pm(1\%set+0.06S)+0.00\\ 0\sim 50V\\ 2mV\\ (T^{*1})\pm(0.1\% \mbox{ of } rdg+0.1\% \mbox{ of } F.S)\\ (Full \mbox{ scale of Low range})\\ 0\sim 1.5A\\ 0.05mA\\ (T^{*1})\pm(0.1\% \mbox{ of } rdg+0.1\% \mbox{ of } F.S)\\ \end{array}$	$ \begin{aligned} & 50\dot{k} \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$
	Setting Range Resistance Resolution Resistance Accuracy Voltage Readback Range Resolutior Accuracy Current Readback Range Resolutior Accuracy Trigger In/out Terminal(BNC Current Momitor Output Analog External Control	$\begin{array}{c} 6S \sim 0.0002S(0.1666\Omega\sim 5k;\\ 60S \sim 0.002S(0.01666\Omega\sim 5k;\\ 6S \sim 0.002S(0.1666\Omega\sim 5k;\\ 30000steps\\ (T^{*1})\pm(1\%set+0.6S)+0.002\\ 0 \sim 15 \lor\\ 0.5m \lor\\ (T^{*1})\pm(0.1\%ofrdg+0.1\%ofF.S)\\ (Full scale of Low range)\\ 0 \sim 6A\\ 0.2mA\\ (T^{*1})\pm(0.1\%ofrdg+0.1\%ofF.S)\\ (Full scale of High range)\\ YES\\ YES\\ YES\\ YES\\ \end{array}$	$ \begin{aligned} \Omega \) (300W/150V)' \\ D \Omega \) (300W/15V) \\ \Omega \) (300W/150V) \\ 2mS \\ \hline 0 ~ 150V \\ 5mV \\ (T^{1}) \pm (0.1\% \text{ of } rdg + 0.1\% \text{ of } F.S) \\ (Full scale of High range) \\ 0 ~ 60A \\ 2mA \\ (T^{*1}) \pm (0.1\% \text{ of } rdg + 0.2\% \text{ of } F.S) \end{aligned} $	$\begin{array}{l} 0.6S \sim 0.00002S(1.6666\Omega \sim 58\\ 6S \sim 0.0002S(0.16666\Omega \sim 58\\ 0.6S \sim 0.00002S(1.6666\Omega \sim 58\\ 30000 \mbox{ steps}\\ (T^{*1})\pm(1\%set+0.06S)+0.00\\ 0\sim 50V\\ 2mV\\ (T^{*1})\pm(0.1\% \mbox{ of } rdg+0.1\% \mbox{ of } F.S)\\ (Full \mbox{ scale of Low range})\\ 0\sim 1.5A\\ 0.05mA\\ (T^{*1})\pm(0.1\% \mbox{ of } rdg+0.1\% \mbox{ of } F.S)\\ \end{array}$	$ \begin{aligned} & 50\dot{k} \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$
	Setting Range Resistance Resolution Resistance Accuracy Voltage Readback Range Resolution Accuracy Current Readback Range Resolution Accuracy Trigger In/out Terminal(BNC Current Momitor Output Analog External Control Soft Start	$\begin{array}{l} 6S \sim 0.0002S(0.1666\Omega\sim 5k;\\ 60S \sim 0.002S(0.01666\Omega\sim 5k;\\ 6S \sim 0.002S(0.1666\Omega\sim 5k;\\ 30000steps\\ (T^{*1})\pm(1\%set+0.6S)+0.002\\ 0 \sim 15V\\ 0.5mV\\ (T^{*1})\pm(0.1\%ofrdg+0.1\%ofF.S)\\ (Full scale of Low range)\\ 0 \sim 6A\\ 0.2mA\\ (T^{*1})\pm(0.1\%ofrdg+0.1\%ofF.S)\\ (Full scale ofHighrange)\\ YES\\ YES\\ YES\\ YES\\ YES\\ YES\\ \end{array}$	$ \begin{aligned} \Omega \) (300W/150V)' \\ D \Omega \) (300W/15V) \\ \Omega \) (300W/150V) \\ 2mS \\ \hline 0 ~ 150V \\ 5mV \\ (T^{1}) \pm (0.1\% \text{ of } rdg + 0.1\% \text{ of } F.S) \\ (Full scale of High range) \\ 0 ~ 60A \\ 2mA \\ (T^{*1}) \pm (0.1\% \text{ of } rdg + 0.2\% \text{ of } F.S) \end{aligned} $	$\begin{array}{l} 0.6S \sim 0.00002S(1.6666\Omega \sim 58\\ 6S \sim 0.0002S(0.16666\Omega \sim 58\\ 0.6S \sim 0.00002S(1.6666\Omega \sim 58\\ 30000 \mbox{ steps}\\ (T^{*1})\pm(1\%set+0.06S)+0.00\\ 0\sim 50V\\ 2mV\\ (T^{*1})\pm(0.1\% \mbox{ of } rdg+0.1\% \mbox{ of } F.S)\\ (Full \mbox{ scale of Low range})\\ 0\sim 1.5A\\ 0.05mA\\ (T^{*1})\pm(0.1\% \mbox{ of } rdg+0.1\% \mbox{ of } F.S)\\ \end{array}$	$ \begin{aligned} & 50\dot{k} \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$
	Setting Range Resistance Resolution Resistance Accuracy Voltage Readback Range Resolutior Accuracy Current Readback Range Resolutior Accuracy Trigger In/out Terminal(BNC Current Momitor Output Analog External Control Soft Start Sequence(Normal/Fast)	$\begin{array}{c} 6S \sim 0.0002S(0.1666\Omega\sim 5k;\\ 60S \sim 0.002S(0.01666\Omega\sim 5k;\\ 6S \sim 0.002S(0.1666\Omega\sim 5k;\\ 30000\ steps\\ (T^{*1})\pm(1\%set+0.6S)\pm0.002\\ 0\sim 15V\\ 0.5mV\\ (T^{*1})\pm(0.1\%\ of\ rdg+0.1\%\ of\ F.S)\\ (Full\ scale\ of\ Low\ range)\\ 0\sim 6A\\ 0.2mA\\ (T^{*1})\pm(0.1\%\ of\ rdg+0.1\%\ of\ F.S)\\ (Full\ scale\ of\ High\ range)\\ YES\\ YES\\ YES\\ YES\\ YES\\ YES\\ YES\\ \end{array}$	$ \begin{aligned} \Omega \) (300W/150V)' \\ D \Omega \) (300W/15V) \\ \Omega \) (300W/150V) \\ 2mS \\ \hline 0 ~ 150V \\ 5mV \\ (T^{1}) \pm (0.1\% \text{ of } rdg + 0.1\% \text{ of } F.S) \\ (Full scale of High range) \\ 0 ~ 60A \\ 2mA \\ (T^{*1}) \pm (0.1\% \text{ of } rdg + 0.2\% \text{ of } F.S) \end{aligned} $	$\begin{array}{l} 0.6S \sim 0.00002S(1.6666\Omega \sim 58\\ 6S \sim 0.0002S(0.16666\Omega \sim 58\\ 0.6S \sim 0.00002S(1.6666\Omega \sim 58\\ 30000 \mbox{ steps}\\ (T^{*1})\pm(1\%set+0.06S)+0.00\\ 0\sim 50V\\ 2mV\\ (T^{*1})\pm(0.1\% \mbox{ of } rdg+0.1\% \mbox{ of } F.S)\\ (Full \mbox{ scale of Low range})\\ 0\sim 1.5A\\ 0.05mA\\ (T^{*1})\pm(0.1\% \mbox{ of } rdg+0.1\% \mbox{ of } F.S)\\ \end{array}$	$ \begin{aligned} & 50\dot{k} \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$
	Setting Range Resistance Resolution Resistance Accuracy Voltage Readback Range Resolution Accuracy Current Readback Range Resolution Accuracy Trigger In/out Terminal(BNC Current Momitor Output Analog External Control Soft Start Sequence(Normal/Fast) BATT Test Automation	$\begin{array}{c} 6S \sim 0.0002S(0.1666\Omega\sim 5k;\\ 60S \sim 0.002S(0.1666\Omega\sim 5k;\\ 60S \sim 0.002S(0.1666\Omega\sim 5k;\\ 30000\ steps \\ (T^{*1})\pm(1\%set+0.6S)+0.002\\ 0\sim 15V\\ 0.5mV\\ (T^{*1})\pm(0.1\%\ of\ rdg+0.1\%\ of\ F.S)\\ (Full\ scale\ of\ Low\ range)\\ 0\sim 6A\\ 0.2mA\\ (T^{*1})\pm(0.1\%\ of\ rdg+0.1\%\ of\ F.S)\\ (Full\ scale\ of\ High\ range)\\ VES\\ YES\\ YES\\ YES\\ YES\\ YES\\ YES\\ YES\\ Y$	$ \begin{aligned} \Omega \) (300W/150V)' \\ D \Omega \) (300W/15V) \\ \Omega \) (300W/150V) \\ 2mS \\ \hline 0 ~ 150V \\ 5mV \\ (T^{1}) \pm (0.1\% \text{ of } rdg + 0.1\% \text{ of } F.S) \\ (Full scale of High range) \\ 0 ~ 60A \\ 2mA \\ (T^{*1}) \pm (0.1\% \text{ of } rdg + 0.2\% \text{ of } F.S) \end{aligned} $	$\begin{array}{l} 0.6S \sim 0.00002S(1.6666\Omega \sim 58\\ 6S \sim 0.0002S(0.16666\Omega \sim 58\\ 0.6S \sim 0.00002S(1.6666\Omega \sim 58\\ 30000 \mbox{ steps}\\ (T^{*1})\pm(1\%set+0.06S)+0.00\\ 0\sim 50V\\ 2mV\\ (T^{*1})\pm(0.1\% \mbox{ of } rdg+0.1\% \mbox{ of } F.S)\\ (Full \mbox{ scale of Low range})\\ 0\sim 1.5A\\ 0.05mA\\ (T^{*1})\pm(0.1\% \mbox{ of } rdg+0.1\% \mbox{ of } F.S)\\ \end{array}$	$ \begin{aligned} & 50\dot{k} \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$
	Setting Range Resistance Resolution Resistance Accuracy Voltage Readback Range Resolutior Accuracy Current Readback Range Resolutior Accuracy Trigger In/out Terminal(BNC Current Momitor Output Analog External Control Soft Start Sequence(Normal/Fast)	$ \begin{array}{l} 6S \sim 0.0002S(0.1666\Omega \sim 5k: \\ 60S \sim 0.002S(0.1666\Omega \sim 5k: \\ 60S \sim 0.002S(0.1666\Omega \sim 5k: \\ 30000 \mbox{ steps } (T^{*1}) \pm (1\% \mbox{ stet } + 0.6S) + 0.002 \\ 0 \sim 15V \\ 0.5mV \\ (T^{*1}) \pm (0.1\% \mbox{ of } rdg + 0.1\% \mbox{ of } F.S) \\ (Full scale \mbox{ of } rdg + 0.1\% \mbox{ of } F.S) \\ (Full scale \mbox{ of } rdg + 0.1\% \mbox{ of } F.S) \\ (Full scale \mbox{ of } rdg + 0.1\% \mbox{ of } F.S) \\ (Full scale \mbox{ of } rdg + 0.1\% \mbox{ of } F.S) \\ (Full scale \mbox{ of } rdg + 0.1\% \mbox{ of } F.S) \\ (Full scale \mbox{ of } rdg + 0.1\% \mbox{ of } F.S) \\ (Full scale \mbox{ of } rdg + 0.1\% \mbox{ of } F.S) \\ (Full scale \mbox{ of } rdg + 0.1\% \mbox{ of } F.S) \\ (Full scale \mbox{ of } High \mbox{ range}) \\ YES \end{array} $	$ \begin{aligned} \Omega \) (300W/150V)' \\ D \Omega \) (300W/15V) \\ \Omega \) (300W/150V) \\ 2mS \\ \hline 0 ~ 150V \\ 5mV \\ (T^{1}) \pm (0.1\% \text{ of } rdg + 0.1\% \text{ of } F.S) \\ (Full scale of High range) \\ 0 ~ 60A \\ 2mA \\ (T^{*1}) \pm (0.1\% \text{ of } rdg + 0.2\% \text{ of } F.S) \end{aligned} $	$\begin{array}{l} 0.6S \sim 0.00002S(1.6666\Omega \sim 58\\ 6S \sim 0.0002S(0.16666\Omega \sim 58\\ 0.6S \sim 0.00002S(1.6666\Omega \sim 58\\ 30000 \mbox{ steps}\\ (T^{*1})\pm(1\%set+0.06S)+0.00\\ 0\sim 50V\\ 2mV\\ (T^{*1})\pm(0.1\% \mbox{ of } rdg+0.1\% \mbox{ of } F.S)\\ (Full \mbox{ scale of Low range})\\ 0\sim 1.5A\\ 0.05mA\\ (T^{*1})\pm(0.1\% \mbox{ of } rdg+0.1\% \mbox{ of } F.S)\\ \end{array}$	$ \begin{aligned} & 50\dot{k} \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$
	Setting Range Resistance Resolution Resistance Accuracy Voltage Readback Range Resolutior Accuracy Current Readback Range Resolutior Accuracy Trigger In/out Terminal(BNC Current Momitor Output Analog External Control Soft Start Sequence(Normal/Fast) BATT Test Automation OCP Autotest Function	$\begin{array}{c} 6S \sim 0.0002S(0.1666\Omega\sim 5k;\\ 60S \sim 0.002S(0.1666\Omega\sim 5k;\\ 60S \sim 0.002S(0.1666\Omega\sim 5k;\\ 30000\ steps \\ (T^{*1})\pm(1\%set+0.6S)+0.002\\ 0\sim 15V\\ 0.5mV\\ (T^{*1})\pm(0.1\%\ of\ rdg+0.1\%\ of\ F.S)\\ (Full\ scale\ of\ Low\ range)\\ 0\sim 6A\\ 0.2mA\\ (T^{*1})\pm(0.1\%\ of\ rdg+0.1\%\ of\ F.S)\\ (Full\ scale\ of\ High\ range)\\ VES\\ YES\\ YES\\ YES\\ YES\\ YES\\ YES\\ YES\\ Y$	$ \begin{aligned} \Omega \) (300W/150V)' \\ D \Omega \) (300W/15V) \\ \Omega \) (300W/150V) \\ 2mS \\ \hline 0 ~ 150V \\ 5mV \\ (T^{1}) \pm (0.1\% \text{ of } rdg + 0.1\% \text{ of } F.S) \\ (Full scale of High range) \\ 0 ~ 60A \\ 2mA \\ (T^{*1}) \pm (0.1\% \text{ of } rdg + 0.2\% \text{ of } F.S) \end{aligned} $	$\begin{array}{l} 0.6S \sim 0.00002S(1.6666\Omega \sim 58\\ 6S \sim 0.0002S(0.16666\Omega \sim 58\\ 0.6S \sim 0.00002S(1.6666\Omega \sim 58\\ 30000 \mbox{ steps}\\ (T^{*1})\pm(1\%set+0.06S)+0.00\\ 0\sim 50V\\ 2mV\\ (T^{*1})\pm(0.1\% \mbox{ of } rdg+0.1\% \mbox{ of } F.S)\\ (Full \mbox{ scale of Low range})\\ 0\sim 1.5A\\ 0.05mA\\ (T^{*1})\pm(0.1\% \mbox{ of } rdg+0.1\% \mbox{ of } F.S)\\ \end{array}$	$ \begin{aligned} & 50\dot{k} \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$
	Setting Range Resistance Resolution Resistance Accuracy Voltage Readback Range Resolution Accuracy Current Readback Range Resolution Accuracy Trigger In/out Terminal(BNC Current Momitor Output Analog External Control Soft Start Sequence(Normal/Fast) BATT Test Automation OCP Autotest Function	$ \begin{array}{c} 6S \sim 0.0002S(0.1666\Omega \sim 5k; \\ 60S \sim 0.002S(0.1666\Omega \sim 5k; \\ 30000 \ steps \\ (T^{*1}) \pm (1\%set + 0.6S) + 0.002 \\ 0 \sim 15V \\ 0.5mV \\ (T^{*1}) \pm (0.1\% \ ofr dg + 0.1\% \ of F.S) \\ (Full \ scale \ of \ Low \ range) \\ 0 \sim 6A \\ 0.2mA \\ (T^{*1}) \pm (0.1\% \ ofr dg + 0.1\% \ of F.S) \\ (Full \ scale \ of \ High \ range) \\ \end{array} $	$\begin{aligned} \Omega \) (300W/150V) \\ D \Omega \) (300W/15V) \\ \Omega \) (300W/150V) \\ 2mS \\ 0 ~ 150V \\ 5mV \\ (T^{*1})\pm (0.1\% \text{ of } rdg+0.1\% \text{ of } F.S) \\ (Full scale of High range) \\ 0 ~ 60A \\ 2mA \\ (T^{*1})\pm (0.1\% \text{ of } rdg+0.2\% \text{ of } F.S) \\ (Full scale of High range) \end{aligned}$	$\begin{array}{l} 0.6S \sim 0.00002S(1.6666\Omega \sim 58\\ 6S \sim 0.0002S(0.16666\Omega \sim 58\\ 0.6S \sim 0.00002S(1.6666\Omega \sim 58\\ 30000 \mbox{ steps}\\ (T^{*1})\pm(1\%set+0.06S)+0.00\\ 0\sim 50V\\ 2mV\\ (T^{*1})\pm(0.1\% \mbox{ of } rdg+0.1\% \mbox{ of } F.S)\\ (Full \mbox{ scale of Low range})\\ 0\sim 1.5A\\ 0.05mA\\ (T^{*1})\pm(0.1\% \mbox{ of } rdg+0.1\% \mbox{ of } F.S)\\ \end{array}$	$ \begin{aligned} & 50\dot{k} \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$
GENERAL	Setting Range Resistance Resolution Resistance Accuracy Voltage Readback Range Resolution Accuracy Current Readback Range Resolution Accuracy Trigger In/out Terminal(BNC Current Momitor Output Analog External Control Soft Start Sequence(Normal/Fast) BATT Test Automation OCP Autotest Function OPP Autotest Function Preset Data	$\begin{array}{l} 6S \sim 0.0002S(0.1666\Omega \sim 5k;\\ 60S \sim 0.002S(0.01666\Omega \sim 5k;\\ 60S \sim 0.002S(0.1666\Omega \sim 5k;\\ 30000steps\\ (T^{*1})\pm(1\%set+0.6S)+0.002\\ 0 \sim 15 \lor\\ 0.5m \lor\\ (T^{*1})\pm(0.1\%ofrdg+0.1\%ofF.S)\\ (Full scale of Low range)\\ 0 \sim 6A\\ 0.2mA\\ (T^{*1})\pm(0.1\%ofrdg+0.1\%ofF.S)\\ (Full scale of High range)\\ \end{array}$	Ω) (300W/150V) 20Ω) (300W/15V) Ω) (300W/150V) 2mS 0 ~ 150V 5mV (T*1)±(0.1% of rdg+0.1% of F.S) (Full scale of High range) 0 ~ 60A 2mA (T*1)±(0.1% of rdg+0.2% of F.S) (Full scale of High range)	$\begin{array}{l} 0.6S \sim 0.00002S(1.6666\Omega \sim 58\\ 6S \sim 0.0002S(0.16666\Omega \sim 58\\ 0.6S \sim 0.00002S(1.6666\Omega \sim 58\\ 30000 \mbox{ steps}\\ (T^{*1})\pm(1\%set+0.06S)+0.00\\ 0\sim 50V\\ 2mV\\ (T^{*1})\pm(0.1\% \mbox{ of } rdg+0.1\% \mbox{ of } F.S)\\ (Full \mbox{ scale of Low range})\\ 0\sim 1.5A\\ 0.05mA\\ (T^{*1})\pm(0.1\% \mbox{ of } rdg+0.1\% \mbox{ of } F.S)\\ \end{array}$	$ \begin{aligned} & 50\dot{k} \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$
	Setting Range Resistance Resolution Resistance Accuracy Voltage Readback Range Resolutior Accuracy Current Readback Range Resolutior Accuracy Trigger In/out Terminal(BNC Current Momitor Output Analog External Control Soft Start Sequence(Normal/Fast) BATT Test Automation OCP Autotest Function OPP Autotest Function Preset Data Protection	$\begin{array}{l} 6S \sim 0.0002S(0.1666\Omega\sim 5k;\\ 60S \sim 0.002S(0.01666\Omega\sim 5k;\\ 6S \sim 0.002S(0.1666\Omega\sim 5k;\\ 30000steps\\ (T^{*1})\pm(1\%set+0.6S)+0.002\\ 0 \sim 15V\\ 0.5mV\\ (T^{*1})\pm(0.1\%ofrdg+0.1\%ofF.S)\\ (Full scale of Low range)\\ 0 \sim 6A\\ 0.2mA\\ (T^{*1})\pm(0.1\%ofrdg+0.1\%ofF.S)\\ (Full scale of High range)\\ YES\\ YES\\ YES\\ YES\\ YES\\ YES\\ YES\\ YES$	Ω) (300W/150V) 20Ω) (300W/15V) Ω) (300W/150V) 2mS 0 ~ 150V 5mV (T*1)±(0.1% of rdg+0.1% of F.S) (Full scale of High range) 0 ~ 60A 2mA (T*1)±(0.1% of rdg+0.2% of F.S) (Full scale of High range) RVP 2, 47 ~ 63Hz	$\begin{array}{l} 0.6S \sim 0.00002S(1.6666\Omega \sim 58\\ 6S \sim 0.0002S(0.16666\Omega \sim 58\\ 0.6S \sim 0.00002S(1.6666\Omega \sim 58\\ 30000 \mbox{ steps}\\ (T^{*1})\pm(1\%set+0.06S)+0.00\\ 0\sim 50V\\ 2mV\\ (T^{*1})\pm(0.1\% \mbox{ of } rdg+0.1\% \mbox{ of } F.S)\\ (Full \mbox{ scale of Low range})\\ 0\sim 1.5A\\ 0.05mA\\ (T^{*1})\pm(0.1\% \mbox{ of } rdg+0.1\% \mbox{ of } F.S)\\ \end{array}$	$ \begin{aligned} & 50\dot{k} \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$
GENERAL	Setting Range Resistance Resolution Resistance Accuracy Voltage Readback Range Resolution Accuracy Current Readback Range Resolution Accuracy Trigger In/out Terminal(BNC Current Momitor Output Analog External Control Soft Start Sequence(Normal/Fast) BATT Test Automation OCP Autotest Function OCP Autotest Function Preset Data Protection	$\begin{array}{l} 6S \sim 0.0002S(0.1666\Omega \sim 5k;\\ 60S \sim 0.002S(0.01666\Omega \sim 5k;\\ 60S \sim 0.002S(0.1666\Omega \sim 5k;\\ 30000steps\\ (T^{*1})\pm(1\%set+0.6S)+0.002\\ 0 \sim 15V\\ 0.5mV\\ (T^{*1})\pm(0.1\%ofrdg+0.1\%ofF.S)\\ (Full scale of Low range)\\ 0 \sim 6A\\ 0.2mA\\ (T^{*1})\pm(0.1\%ofrdg+0.1\%ofF.S)\\ (Full scale of High range)\\ YES\\ YES\\ YES\\ YES\\ YES\\ YES\\ YES\\ YES$	Ω) (300W/150V) 20Ω) (300W/15V) Ω) (300W/15V) Ω) (300W/150V) 2mS 0 ~ 150V 5mV (T ^{ε1})±(0.1% of rdg+0.1% of F.S) (Full scale of High range) 0 ~ 60A 2mA (T ^{ε1})±(0.1% of rdg+0.2% of F.S) (Full scale of High range) RVP F, 47 ~ 63Hz control	$\begin{array}{l} 0.6S \sim 0.00002S(1.6666\Omega \sim 58\\ 6S \sim 0.0002S(0.16666\Omega \sim 58\\ 0.6S \sim 0.00002S(1.6666\Omega \sim 58\\ 30000 \mbox{ steps}\\ (T^{*1})\pm(1\%set+0.06S)+0.00\\ 0\sim 50V\\ 2mV\\ (T^{*1})\pm(0.1\% \mbox{ of } rdg+0.1\% \mbox{ of } F.S)\\ (Full \mbox{ scale of Low range})\\ 0\sim 1.5A\\ 0.05mA\\ (T^{*1})\pm(0.1\% \mbox{ of } rdg+0.1\% \mbox{ of } F.S)\\ \end{array}$	$ \begin{aligned} & 50\dot{k} \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$
GENERAL	Setting Range Resistance Resolution Resistance Accuracy Voltage Readback Range Resolution Accuracy Current Readback Range Resolution Accuracy Trigger In/out Terminal(BNC Current Momitor Output Analog External Control Soft Start Sequence(Normal/Fast) BATT Test Automation OCP Autotest Function OCP Autotest Function OCP Autotest Function Preset Data Protection Power Source Interface Dimensions & Weight	$\begin{array}{l} 6S \sim 0.0002S(0.1666\Omega \sim 5k;\\ 60S \sim 0.002S(0.01666\Omega \sim 5k;\\ 60S \sim 0.002S(0.1666\Omega \sim 5k;\\ 30000steps\\ (T^{*1})\pm(1\%set+0.6S)+0.002\\ 0 \sim 15V\\ 0.5mV\\ (T^{*1})\pm(0.1\%ofrdg+0.1\%ofF.S)\\ (Full scale of Low range)\\ 0 \sim 6A\\ 0.2mA\\ (T^{*1})\pm(0.1\%ofrdg+0.1\%ofF.S)\\ (Full scale of High range)\\ 1 \end{tabular}$	Ω) (300w/150v) 20Ω) (300W/15v) Ω) (300W/15v) Ω) (300W/15ov) 2mS 0 ~ 150V 5mV (T ^{*1})±(0.1% of rdg+0.1% of F.S) (Full scale of High range) 0 ~ 60A 2mA (T ^{*1})±(0.1% of rdg+0.2% of F.S) (Full scale of High range) RVP RVP RVP c, 47 ~ 63Hz control D)mm, Approx. 7.5Kg	$\begin{array}{l} 0.6S \sim 0.00002S(1.6666\Omega \sim 58\\ 6S \sim 0.0002S(0.16666\Omega \sim 58\\ 0.6S \sim 0.00002S(1.6666\Omega \sim 58\\ 30000 \mbox{ steps}\\ (T^{*1})\pm(1\%set+0.06S)+0.00\\ 0\sim 50V\\ 2mV\\ (T^{*1})\pm(0.1\% \mbox{ of } rdg+0.1\% \mbox{ of } F.S)\\ (Full \mbox{ scale of Low range})\\ 0\sim 1.5A\\ 0.05mA\\ (T^{*1})\pm(0.1\% \mbox{ of } rdg+0.1\% \mbox{ of } F.S)\\ \end{array}$	50k Ω) (300W/500V) Ω) (300W/50V) 50k Ω) (300W/500V) 12mS 0 ~ 500V 20mV (T ^{*1})±(0.1% of rdg+0.1% of F (Full scale of High range) 0 ~ 15A 0.5mA (T ^{*1})±(0.1% of rdg+0.2% of F (Full scale of High range)
GENERAL OTHER ote : *1 - If the ambien	Setting Range Resistance Resolution Resistance Accuracy Voltage Readback Range Resolutior Accuracy Current Readback Range Resolutior Accuracy Trigger In/out Terminal(BNC Current Momitor Output Analog External Control Soft Start Sequence(Normal/Fast) BATT Test Automation OCP Autotest Function OPP Autotest Function Preset Data Protection Power Source Interface Dimensions & Weight	$\begin{array}{l} 6S \sim 0.0002S(0.1666\Omega \sim 5k;\\ 60S \sim 0.002S(0.01666\Omega \sim 5k;\\ 60S \sim 0.002S(0.1666\Omega \sim 5k;\\ 30000 \mbox{ steps}\\ (T^{*1})\pm(1\%\mbox{ stet }+ 0.6S) + 0.002\\ 0 \sim 15V\\ 0.5mV\\ (T^{*1})\pm(0.1\%\mbox{ of rdg}+0.1\%\mbox{ of F.S})\\ (Full scale of Low range)\\ 0 \sim 6A\\ 0.2mA\\ (T^{*1})\pm(0.1\%\mbox{ of rdg}+0.1\%\mbox{ of F.S})\\ (Full scale of High range)\\ 0 \sim 6A\\ 0.2mA\\ (T^{*1})\pm(0.1\%\mbox{ of rdg}+0.1\%\mbox{ of F.S})\\ (Full scale of High range)\\ 0 ~ 5E\\ YES\\ YES\\ YES\\ YES\\ YES\\ YES\\ YES\\ YE$	Ω) (300W/150V) OΩ) (300W/15V) Ω) (300W/15V) Ω) (300W/150V) 2mS 0 ~ 150V 5mV (T [±])±(0.1% of rdg+0.1% of F.S) (Full scale of High range) 0 ~ 60A 2mA (T [±])±(0.1% of rdg+0.2% of F.S) (Full scale of High range) RVP C, 47 ~ 63Hz control D)mm, Approx. 7.5Kg m/°C x Set Specif	$0.6S \sim 0.00002S(1.6666\Omega \sim 360)$ $6S \sim 0.0002S(0.16666\Omega \sim 580)$ $0.6S \sim 0.00002S(1.6666\Omega \sim 30000)$ $(T^{*1})\pm(1\%set + 0.06S) + 0.000$ $0 \sim 50V$ 2mV $(T^{*1})\pm(0.1\% \text{ of rdg}+0.1\% \text{ of F.S})$ (Full scale of Low range) $0 \sim 1.5A$ 0.05mA $(T^{*1})\pm(0.1\% \text{ of rdg}+0.1\% \text{ of F.S})$ (Full scale of High range) ications subject to change without	Sok Ω) (300W/500V) Ω) (300W/50V) SOk Ω) (300W/500V) 12mS 0 ~ 500V 20mV (T ^{*1})±(0.1% of rdg+0.1% of F (Full scale of High range) 0 ~ 15A 0.5mA (T ^{*1})±(0.1% of rdg+0.2% of F (Full scale of High range) 0 ~ 15A 0.5mA (T ^{*1})±(0.1% of rdg+0.2% of F (Full scale of High range)
GENERAL OTHER ote : *1 - If the ambien If the ambien	Setting Range Resistance Resolution Resistance Accuracy Voltage Readback Range Resolutior Accuracy Current Readback Range Resolutior Accuracy Trigger In/out Terminal(BNC Current Momitor Output Analog External Control Soft Start Sequence(Normal/Fast) BATT Test Automation OCP Autotest Function OPP Autotest Function Preset Data Protection Power Source Interface Dimensions & Weight	$ \begin{array}{l} 6S \sim 0.0002S(0.1666\Omega \sim 5k: \\ 60S \sim 0.002S(0.01666\Omega \sim 5k: \\ 60S \sim 0.002S(0.1666\Omega \sim 5k: \\ 30000 \mbox{ steps} \\ (T^{*1})\pm(1\%set+0.6S)+0.002 \\ 0 \sim 15V \\ 0.5mV \\ (T^{*1})\pm(0.1\% \mbox{ of } rdg+0.1\% \mbox{ of } F.S) \\ (Full scale \mbox{ of } rdg+0.1\% \mbox{ of } rdg+0.1\% \mbox{ of } F.S) \\ (Full scale \mbox{ of } rdg+0.1\% \mbo$	Ω) (300W/150V) OΩ) (300W/15V) Ω) (300W/15V) Ω) (300W/150V) 2mS 0 ~ 150V 5mV (T [±])±(0.1% of rdg+0.1% of F.S) (Full scale of High range) 0 ~ 60A 2mA (T [±])±(0.1% of rdg+0.2% of F.S) (Full scale of High range) RVP C, 47 ~ 63Hz control D)mm, Approx. 7.5Kg m/°C x Set Specif	$\begin{array}{l} 0.6S \sim 0.00002S(1.6666\Omega \sim 3 \\ 6S \sim 0.0002S(1.6666\Omega \sim 5k \\ 0.6S \sim 0.00002S(1.6666\Omega \sim 3 \\ 30000 \ steps \\ (T^{*1})\pm(1\%set+0.06S)+0.00 \\ 0 \sim 50V \\ 2mV \\ (T^{*1})\pm(0.1\% \ of \ rdg+0.1\% \ of \ F.S) \\ (Full \ scale \ of \ Low \ range) \\ 0 \sim 1.5A \\ 0.05mA \\ (T^{*1})\pm(0.1\% \ of \ rdg+0.1\% \ of \ F.S) \\ (Full \ scale \ of \ High \ range) \end{array}$	Sok Ω) (300W/500V) Ω) (300W/50V) SOk Ω) (300W/500V) 12mS 0 ~ 500V 20mV (T ^{*1})±(0.1% of rdg+0.1% of F (Full scale of High range) 0 ~ 15A 0.5mA (T ^{*1})±(0.1% of rdg+0.2% of F (Full scale of High range) 0 ~ 15A 0.5mA (T ^{*1})±(0.1% of rdg+0.2% of F (Full scale of High range)
GENERAL OTHER ote : *1 - If the ambien If the ambien ORDERING I	Setting Range Resistance Resolution Resistance Accuracy Voltage Readback Range Resolutior Accuracy Current Readback Range Resolutior Accuracy Trigger In/out Terminal(BNC Current Momitor Output Analog External Control Soft Start Sequence(Normal/Fast) BATT Test Automation OCP Autotest Function OPP Autotest Function Preset Data Protection Power Source Interface Dimensions & Weight	$\begin{array}{l} 6S \sim 0.0002S(0.1666\Omega \sim 5k;\\ 60S \sim 0.002S(0.01666\Omega \sim 5k;\\ 60S \sim 0.002S(0.1666\Omega \sim 5k;\\ 30000 \mbox{ steps}\\ (T^{*1})\pm(1\%\mbox{ stet }+ 0.6S) + 0.002\\ 0 \sim 15V\\ 0.5mV\\ (T^{*1})\pm(0.1\%\mbox{ of rdg}+0.1\%\mbox{ of F.S})\\ (Full scale of Low range)\\ 0 \sim 6A\\ 0.2mA\\ (T^{*1})\pm(0.1\%\mbox{ of rdg}+0.1\%\mbox{ of F.S})\\ (Full scale of High range)\\ YES\\ YES\\ YES\\ YES\\ YES\\ YES\\ YES\\ YES$	Ω) (300w/150v)' 20Ω) (300w/15v) Ω) (300w/15v) Ω) (300w/15ov) 2mS 0 ~ 150V 5mV (T±1)±(0.1% of rdg+0.1% of F.S) (Full scale of High range) 0 ~ 60A 2mA (T±1)±(0.1% of rdg+0.2% of F.S) (Full scale of High range) RVP C, 47 ~ 63Hz control D)mm, Approx. 7.5Kg pm/°C x Set Specific specifi	0.6S ~ 0.0002S(1.6666 Ω ~ 5k 0.6S ~ 0.0002S(1.6666 Ω ~ 5k 0.6S ~ 0.00002S(1.6666 Ω ~ 1 30000 steps (T*1)±(1%set + 0.06S) + 0.00 0 ~ 50V 2mV (T*1)±(0.1% of rdg+0.1% of F.S) (Full scale of Low range) 0 ~ 1.5A 0.05mA (T*1)±(0.1% of rdg+0.1% of F.S) (Full scale of High range) ications subject to change without OPTIONAL ASS	Sok Ω) (300W/500V) Ω) (300W/50V) SOk Ω) (300W/500V) 12mS 0 ~ 500V 20mV (T*1)±(0.1% of rdg+0.1% of F (Full scale of High range) 0 ~ 15A 0.5mA (T*1)±(0.1% of rdg+0.2% of F (Full scale of High range) 0 ~ 15A 0.5mA (T*1)±(0.1% of rdg+0.2% of F (Full scale of High range)
GENERAL OTHER ote : *1 - If the ambien If the ambien ORDERING II PEL-3031E	Setting Range Resistance Resolution Resistance Accuracy Voltage Readback Range Resolutior Accuracy Current Readback Range Resolutior Accuracy Trigger In/out Terminal(BNC Current Momitor Output Analog External Control Soft Start Sequence(Normal/Fast) BATT Test Automation OCP Autotest Function OPP Autotest Function Preset Data Protection Power Source Interface Dimensions & Weight tt temperature is over 30 °C or below t temperature is in the range of 20°C NFORMATION	$ \begin{array}{l} 6S \sim 0.0002S(0.1666\Omega \sim 5k: \\ 60S \sim 0.002S(0.01666\Omega \sim 5k: \\ 60S \sim 0.002S(0.1666\Omega \sim 5k: \\ 30000 \mbox{ steps} \\ (T^{*1})\pm(1\%\mbox{ stet } + 0.6S) + 0.002 \\ 0 \sim 15V \\ 0.5mV \\ (T^{*1})\pm(0.1\%\mbox{ of rdg}+0.1\%\mbox{ of F.S}) \\ (Full scale of Low range) \\ 0 \sim 6A \\ 0.2mA \\ (T^{*1})\pm(0.1\%\mbox{ of rdg}+0.1\%\mbox{ of F.S}) \\ (Full scale of High range) \\ 0 \sim 6A \\ 0.2mA \\ (T^{*1})\pm(0.1\%\mbox{ of rdg}+0.1\%\mbox{ of F.S}) \\ (Full scale of High range) \\ 0 YES \\ YES $	Ω) (300w/150v)' OΩ) (300w/15v) Ω) (300w/15v) Ω) (300w/15ov) 2mS 0 ~ 150V 5mV (T±1)±(0.1% of rdg+0.1% of F.S) (Full scale of High range) 0 ~ 60A 2mA (T±1)±(0.1% of rdg+0.2% of F.S) (Full scale of High range) RVP C, 47 ~ 63Hz control D)mm, Approx. 7.5Kg m/°C x Set Specifi mperature) Electronic Load	0.6S ~ 0.0002S(1.6666 Ω ~ 5k 0.6S ~ 0.0002S(0.16666 Ω ~ 5k 0.6S ~ 0.00002S(1.6666 Ω ~ 13 30000 steps (T*1)±(1%set + 0.06S) + 0.00 0 ~ 50V 2mV (T*1)±(0.1% of rdg+0.1% of F.S) (Full scale of Low range) 0 ~ 1.5A 0.05mA (T*1)±(0.1% of rdg+0.1% of F.S) (Full scale of High range) ications subject to change without OPTIONAL ASS GTL-248 GPIB	Sok Ω) (300W/500V) Ω) (300W/50V) SOk Ω) (300W/500V) 12mS 0 ~ 500V 20mV (T ^{*1})±(0.1% of rdg+0.1% of F (Full scale of High range) 0 ~ 15A 0.5mA (T ^{*1})±(0.1% of rdg+0.2% of F (Full scale of High range) 0 ~ 15A 0.5mA (T ^{*1})±(0.1% of rdg+0.2% of F (Full scale of High range)
CENERAL CTHER Ste : *1 - If the ambien If the ambien ORDERING II PEL-3031E	Setting Range Resistance Resolution Resistance Accuracy Voltage Readback Range Resolutior Accuracy Current Readback Range Resolutior Accuracy Trigger In/out Terminal(BNC Current Momitor Output Analog External Control Soft Start Sequence(Normal/Fast) BATT Test Automation OCP Autotest Function OPP Autotest Function Preset Data Protection Power Source Interface Dimensions & Weight tt temperature is over 30 °C or below t temperature is in the range of 20°C NFORMATION	$\begin{array}{l} 6S \sim 0.0002S(0.1666\Omega \sim 5k;\\ 60S \sim 0.002S(0.01666\Omega \sim 5k;\\ 60S \sim 0.002S(0.1666\Omega \sim 5k;\\ 30000 \mbox{ steps}\\ (T^{*1})\pm(1\%\mbox{ stet }+ 0.6S) + 0.002\\ 0 \sim 15V\\ 0.5mV\\ (T^{*1})\pm(0.1\%\mbox{ of rdg}+0.1\%\mbox{ of F.S})\\ (Full scale of Low range)\\ 0 \sim 6A\\ 0.2mA\\ (T^{*1})\pm(0.1\%\mbox{ of rdg}+0.1\%\mbox{ of F.S})\\ (Full scale of High range)\\ YES\\ YES\\ YES\\ YES\\ YES\\ YES\\ YES\\ YES$	Ω) (300w/150v)' OΩ) (300w/15v) Ω) (300w/15v) Ω) (300w/15ov) 2mS 0 ~ 150V 5mV (T±1)±(0.1% of rdg+0.1% of F.S) (Full scale of High range) 0 ~ 60A 2mA (T±1)±(0.1% of rdg+0.2% of F.S) (Full scale of High range) RVP C, 47 ~ 63Hz control D)mm, Approx. 7.5Kg m/°C x Set Specifi mperature) Electronic Load	0.6S ~ 0.0002S(1.6666 Ω ~ 5k 0.6S ~ 0.0002S(1.6666 Ω ~ 5k 0.6S ~ 0.00002S(1.6666 Ω ~ 1 30000 steps (T*1)±(1%set + 0.06S) + 0.00 0 ~ 50V 2mV (T*1)±(0.1% of rdg+0.1% of F.S) (Full scale of Low range) 0 ~ 1.5A 0.05mA (T*1)±(0.1% of rdg+0.1% of F.S) (Full scale of High range) ications subject to change without OPTIONAL ASS GTL-248 GPIB GTL-246 USB of	Sok Ω) (300W/500V) Ω) (300W/50V) SOk Ω) (300W/500V) 12mS 0 ~ 500V 20mV (T*1)±(0.1% of rdg+0.1% of F (Full scale of High range) 0 ~ 15A 0.5mA (T*1)±(0.1% of rdg+0.2% of F (Full scale of High range) 0 ~ 15A 0.5mA (T*1)±(0.1% of rdg+0.2% of F (Full scale of High range) Second Edition 0.5mA (T*1)±(0.1% of rdg+0.2% of F (Full scale of High range) Second Edition Call scale of High range) Call scale of High range) Call scale of High range) Second Edition Scale s

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

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