

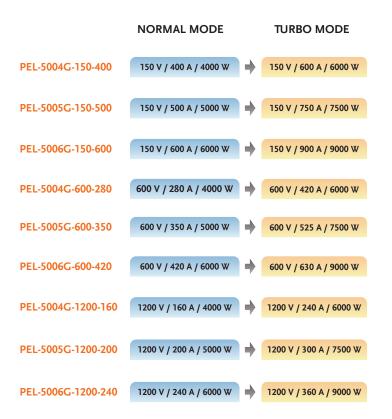
# PEL-5000G Series

**High Power DC Electronic Load** 

### **FEATURES**

- 4 U/6 kW High Power Density Design Also for Bench Testing
- Turbo Mode Function, Which Allows 1.5 Times the Rated Power or Current to be Used Within Two Seconds
- Turbo Mode can be Used with OCP/OPP/BMS/Short Mode/ Surge Mode/Hot Plug-In Testing
- High Tolerance to Environmental Temperature, with 4 kW/5 kW Models not Affected by Environmental Temperature in Power Usage
- Can set the Power-on Status Value
- Short Circuit Duration Can be set Within Short Circuit Test
- Voltage Meter Display Can be Configured as Polarity Positive ("+") or Negative("-")
- Optional Interface : GPIB, RS232, USB, LAN
- Protection function Testing for Battery BMS
- Protection Against V, I, W, and ℃









# **PEL-5000G Series**



### **DESCRIPTIONS**

- PEL-5000G Series module has its own control and display panel, CC/CR/CV/CP/Dynamic modes, also can be controlled via RS232, Ethernet, USB and GPIB interface
- The new Turbo mode is designed for overload or protection testing, which includes OCP, OPP,
   Short for AC/DC or DC/DC power source; Over Charge/Discharge and Short for Battery BMS protection; and Blow/Not Blow testing for Fuse, Breaker or PTC Current Protection Components
- Support Short, OCCP and OCDP protection tests for battery BMS protection testing, the peak current before protection and protection response time are measured
- BMS, Fuse, OCP and OPP single-key test functions on the module make test more efficient
- Dynamic can be simulated under CC, CP mode. The current Rise/Fall slew rate can be adjusted individually and there is an external signal input so that load can have a simulated Specific Load Current Waveform
- SHORT duration setting and SHORT\_VH, SHORT\_VL setting function, also can measure Short Voltage and Current
- Programmable LOAD ON/OFF voltage, GO/NG meter check, Voltage meter display " + "
  or " " is selectable and 150 sets Store/Recall larger memory is much advance feature
  for each different application
- 150 sets test parameter and status storage function can call the storage memory real time in accordance with the auto sequence requirement, at any time to tune out the stored memory for use

# **APPLICATIONS**

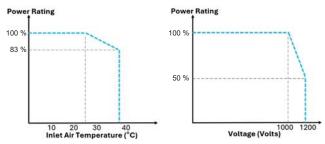
- Voltage/Current Source
   SMPS Transient Response
- Voltage Source Current Limit Testing and Battery Emulation for Charger Testing
- Battery Discharge Capacity
- Lithium Battery BMS Charge and Discharge Protection
- R&D, Quality Control
- ATE System
- Production Testing

# Understanding the knack of electronic load specifications

Electronic loads are like flight simulators, which provide a variety of flight scenarios to train pilots, through the selection of routes to simulate the normal takeoff, landing and abnormal contingency. Similarly, the main function of the electronic load is to simulate the power supply while encountering a variety of load scenarios to confirm the power supply design objectives and contingency through the setting of the current profile to form the specification of the constant current (C.C.), constant voltage (C.V.), and constant resistance (C.R.), and to absorb the output power of the power supply. Extensive applications of electronic load include tests of power supply, battery charger, batteries, solar panels and other power devices, and tests of components that are controlled by current and components that carry current such as: various types of current protection devices, switches, relays, fuses, cables... etc. The detailed test items of the power supply include power supply load adjustment rate, efficiency and temperature rise under different loads, etc., so where there is power supply, there is a need for load to conduct tests.

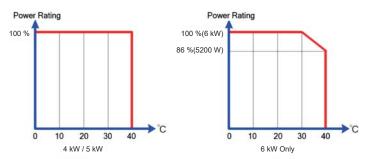
The specifications of electronic loads usually show the best conditions. The best condition is based on specific good operating conditions ( warm-up 30 minutes to 60 minutes; power lab temperature  $(23.0 \pm 2.0)$  °C), and the specification of an electronic load is subject to de-rating due to operating voltage, operating temperature, etc.

The following is the de-rating curve from 632XXA series specifications of the brand C . The left graph in Figure 1 shows that after exceeding the 25 °C power lab environment, the power rating capability decreases by 17 % (83 %) at an operating temperature of 40 °C, and by 50 % at an operating voltage of 1200 V.



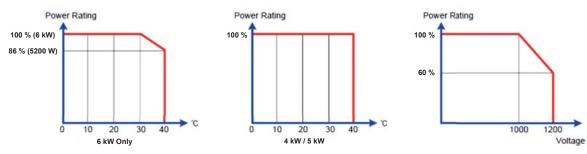
Curve on the Brand C Catalog, Left is The Temperature De-rating Curve; Right is The Voltage De-rating Curve.

Figure 2 shows the derating curve for the 150 V/600 V models of the PEL-5000G series. The 4 kW/5 kW models still provide full power at 40 °C, while the 6 kW model's rated power drops by 14 % at 40 °C (leaving 86 %, 3 % higher than that of the competitor), and Figure 3 shows the derating curve for the 1200 V model of the PEL-5000G, with a 40 % drop in rated power (leaving 60 %, 10 % higher than the competitor). From this derated specification, if you are looking at the specifications for a 1200 V application from the brand C, the power is only 90 % of GW's product, so you have a quantitative benchmark in your mind of how much cheaper then GW's product in terms of the derating?

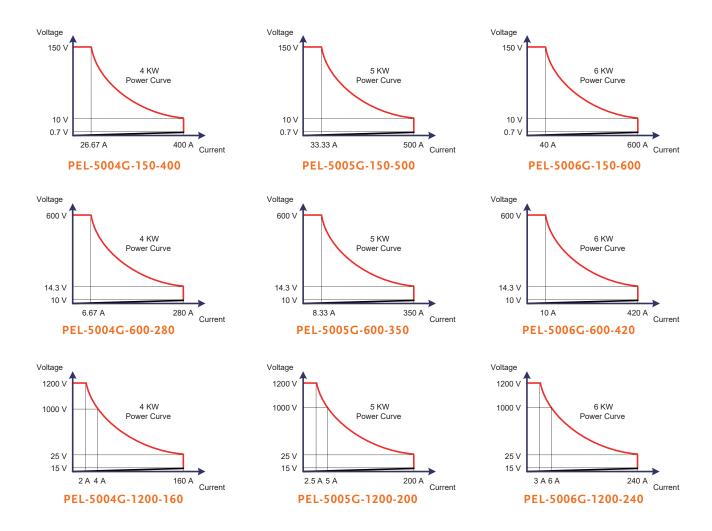


De-rating Curve of PEL-5000G 150 V/600 V Model

You may wonder why GW's products can achieve full power at 4 kW/5 kW. The reason is that the heat sinks for electronic loads usually have one set for every 1 kW. However, in the 4 kW/5 kW models, GW Instek uses the 6 kW heat sink design, which uses 6 sets of heat sinks. It means that the heat dissipation ability is better at 4 kW/5 kW, so that full power can be maintained, and because the single-set heat sink design is better than that of the brand C, the derating at 6 kW is still better than that of the competitor.



Derating Curve of PEL-5000G 1200 V Model



### How to Meet the Demand of Transient Load at a Lower Cost?

When testing the dynamic loading specifications of power supplies or testing fuses and circuit breakers, there are often applications required short periods of time and high currents. Of course, you can purchase higher power electronic loads to meet these needs, but this method requires an extra budget, and the extra budget will not be useful in general applications. The PEL-5000G 1.5x Turbo mode allows you to satisfy this type of test demand with a normal budget. 400 A model can withstand up to 600 A, 500 A model can withstand up to 750 A, and 600 A model can withstand up to 900 A. Why can GW's electronic loads have the function of Turbo mode? The reason is that we use 20 % more MOSFETs than the competitor to provide this 1.5 times (instantaneous 2 seconds) capability.

### Conclusion: Understand the Specifications to Maximize Your Investment!

The PEL-5000G series of electronic loads are designed with the utmost care and materials to maximize the effectiveness of your investment. Full power or low dropout ratings allow you to get the true power for your budget, while the turbo mode satisfies instantaneous applications.



Turbo Mode logo of GW Instek Electronic Load

Model		G-150-400		G-150-500		G-150-600		
Power <sup>®1</sup> Current	0 W to 4 kW 0 A to 400 A	0 W to 6 kW max.*1 0 A to 600 A max.*1	0 W to 5 kW 0 A to 500 A	0 W to 7.5 kW max.*1 0 A to 750 A max.*1	0 W to 6 kW 0 A to 600 A	0 W to 9 kW max.*1 0 A to 900 A max.*1		
oltage	0 V to	150 V	0 V to	150 V	0 V to	150 V		
lin. Operating Voltage rotections	0.7 V@	0400 A		2000 A	0.7 V@	9600 A		
ver Power Protection(OPP) ver Current Protection(OCP)				5% 4%				
ver Voltage Protection(OVP)			10	5% E±5 °C				
onstant Current Mode								
ange <sup>©2</sup> esolution	0 A to 40 A 0.64 mA	0 A to 400 A 6.4 mA	0 A to 50 A 0.80 mA	0 A to 500 A 8.0 mA	0 A to 60 A 0.96 mA	0 A to 600 A 9.6 mA		
ccuracy <sup>93</sup> onstant Resistance Mode			± 0.05% of (S	etting + Range)				
ange	22.5 kΩ to 0.375 Ω	0.375 Ω to 0.0018 Ω	18 kΩ to 0.3 Ω	0.3 Ω to 0.0015 Ω	15 kΩ to 0.25 Ω	0.25 Ω to 0.0012 Ω		
esolution ccuracy	44 μS ± (0.1 %(Vin / Setting) +0.1 % IF.S.)	6.25 μΩ ± (0.2 %(Vin / Setting) +0.5 % IF.S.)*9	56 μS ± (0.1 %(Vin / Setting) +0.1 % IF.S.)	5 μΩ ± (0.2 %(Vin / Setting) +0.5 % IF.S.) *9	67 μS ± (0.1 %(Vin / Setting) +0.1 % IF.S.)	4.167 μΩ ± (0.2 %(Vin / Setting) +0.5 % IF.S		
onstant Voltage Mode ange			0 to					
esolution	0 to 150 V 2.5 mV							
onstant Power Mode	± 0.05 % of (Setting + Range)							
ange esolution	0 W to 400 W 6.4 mW	400 to 4 kW 64 mW	0 W to 500 W 8 mW	500 W to 5 kW 80 mW	0 W to 600 W 9.6 mW	600 W to 6 kW 96 mW		
ccuracy*4 onstant Voltage Mode + Current Limit I		011111		etting + Range)	2.01111	30 1114		
onstant voltage Mode + Current Limit r	150 V	400 A	150 V	500 A	150 V	600 A		
esolution curacy*4	2.5 mV ± 0.05 % of (Setting + Range)	6.4 mA ± 1.0 % of (Setting + Range)	2.5 mV ± 0.05 % of (Setting + Range)	8 mA ± 1.0 % of (Setting + Range)	2.5 mV ± 0.05 % of (Setting + Range)	9.6 mA ± 1.0 % of (Setting + Range)		
onstant Voltage Mode + Power Limit M	ode		150 V	5 kW		6 kW		
ange esolution	150 V 2.5 mV	4 kW 64 mW	2.5 mV	80 mW	150 V 2.5 mV	96 mW		
curacy <sup>64</sup> irbo Mode <sup>85</sup>	± 0.05 % of (Setting + Range)  OFF	± 1.0 % of (Setting + Range) ON	± 0.05 % of (Setting + Range)  OFF	± 1.0 % of (Setting + Range) ON	± 0.05 % of (Setting + Range)  OFF	± 1.0 % of (Setting + Range) ON		
ort / OCP / OPP Test Function								
ax. Current ax. Power	400 A 4000 W	600 A 6000 W	500 A 5000 W	750 A 7500 W	600 A 6000 W	900 A 9000 W		
est Accuracy <sup>6</sup>	100 ms to 10000 ms	100 ma to 2000	± 1.0 % of (Re	ading + Range)	100 ms to 10000 ms	100 me to 2000		
nort Time etting. Accuracy	Continuous	100 ms to 2000 ms	Continuous	100 ms to 2000 ms	Continuous	100 ms to 2000 ms		
hort V Hi			Setting range: 0.00 V to 150	0.00 V / Resolution : 0.0025 V				
nort V Lo CP Time (Tstep)	100 ms	20 ms	Setting range : 0.00 V to 150 100 ms	0.00 V / Resolution : 0.0025 V 20 ms	100 ms	20 ms		
etting. Accuracy	Setting range : 0.00 A to 400.00 A /	Setting range : 0.00 A to 600.00 A /		ms Setting range : 0.00 A to 750.00 A /	Setting range : 0.00 A to 600.00 A /	Setting range : 0.00 A to 900.00 A		
CP ISTAR / ISTEP / ISTOP	Resolution : 6.4 mA	Resolution : 9.6 mA	Resolution: 8.0 mA	Resolution : 12 mA	Resolution : 9.60 mA	Resolution : 14.4 mA		
CP VTH PP Time (Tstep)	100 ms	20 ms	100 ms	0.00 V / Resolution : 0.0025 V 20 ms	100 ms	20 ms		
etting. Accuracy	Setting range : 0.00 W to 4000.0 W /	Setting range : 0.00 W to 6000.0 W /	±5 Setting range : 0.00 W to 5000.0 W /	ms Setting range : 0.00 W to 7500.0 W /	Setting range : 0.00 W to 6000.0 W /	Setting range : 0.00 W to 9000.0 V		
PP PSTAR / PSTEP / PSTOP	Resolution : 64.0 mW	Resolution : 96.0 mW	Resolution: 80.0 mW	Resolution: 120 mW	Resolution : 96 mW	Resolution : 144 mW		
PP VTH MS Test Mode ©7				0.00 V / Resolution : 0.0025 V				
ax. Current eas. Accuracy 66	400 A	600 A	500 A +3.0 % of ( Re	750 A ading + Range )	600 A	900 A		
nort test Time	±3.0 % of ( Reading + Range )  0.05 ms to 10 ms / Resolution : 0.01 ms ±0.02 ms							
leas. Accuracy etting Accuracy			±0.0	95 ms				
hort ITH	Setting range: 0.19 A to 200.00 A / Resolution: 6.4 mA	Setting range : 0.28 A to 300.00 A / Resolution : 9.6 mA	Setting range: 0.24 A to 250.00 A / Resolution: 8.0 mA	Setting range: 0.36 A to 375.00 A / Resolution: 12 mA	Setting range : 0.28 A to 300.00 A / Resolution : 9.6 mA	Setting range: 0.43 A to 450.00 A Resolution: 14.4 mA		
CP ISTAR	Setting range : 0.64 A to 400.00 A / Resolution : 6.4 mA	Setting range : 0.96 A to 600.00 A / Resolution : 9.6 mA	Setting range : 0.80 A to 500.00 A / Resolution : 8.0 mA	Setting range : 1.20 A to 750.00 A / Resolution : 12 mA	Setting range: 0.96 A to 600.00 A / Resolution: 9.6 mA	Setting range: 1.44 A to 900.00 A Resolution: 14.4 mA		
CP TSTEP	0.05 ms to 10 ms	0.05 ms to 10 ms	0.05 ms to 10 ms	0.05 ms to 10 ms	0.05 ms to 10 ms	0.05 ms to 10 ms		
leas. Accuracy	11 ms to 1000 ms ±0.1 ms / ±0.5 ms	±0.5 ms	11 ms to 1000 ms ±0.1 ms / ±0.5 ms	±0.5 ms	11 ms to 1000 ms ±0.1 ms / ±0.5 ms	±0.5 ms		
CP ISTEP	Setting range: 0.00 A to 400.00 A / Resolution: 6.4 mA	Setting range : 6.00 A to 600.00 A / Resolution : 9.6 mA	Setting range: 0.00 A to 500.00 A / Resolution: 8.0 mA	Setting range: 7.50 A to 750.00 A / Resolution: 12 mA	Setting range : 0.00 A to 600.00 A / Resolution : 9.6 mA	Setting range : 9.00 A to 900.00 A Resolution : 14.4 mA		
ICP ISTOP	Setting range : 0.64 A to 400.00 A / Resolution : 6.4 mA	Setting range: 0.96 A to 600.00 A / Resolution: 9.6 mA	Setting range: 0.80 A to 500.00 A / Resolution: 8.0 mA	Setting range: 1.20 A to 750.00 A / Resolution: 12 mA	Setting range: 0.96 A to 600.00 A / Resolution: 9.6 mA	Setting range: 1.44 A to 900.00 A Resolution: 14.4 mA		
ICP ITH	Setting range : 0.19 A to 200.00 A /	Setting range : 0.29 A to 300.00 A /	Setting range : 0.24 A to 250.00 A /	Setting range: 0.37 A to 375.00 A /	Setting range: 0.29 A to 300.00 A /	Setting range: 0.44 A to 450.00 A		
urge Test Mode	Resolution : 6.4 mA	Resolution : 9.6 mA	Resolution : 8.0 mA	Resolution : 12 mA	Resolution : 9.6 mA	Resolution : 14.4 mA		
urge Current ormal Current		600 A 300 A	0 A to 750 A 0 A to 375 A		0 A to 900 A 0 A to 450 A			
urge Time	10 ms to	2000 ms	10 ms to 2000 ms		10 ms to 2000 ms			
urge Step att test Mode	Į lt	0 5	1 to 5		1 to 5			
ode CC ode CP		0.00 A / Resolution : 6.4 mA 0.0 W / Resolution : 64.0 mW		Setting range : 0.00 A to 500.00 A / Resolution : 8.0 mA         Setting range : 0.00 A to 600.00 A / Resolution : 9.6           Setting range : 0.00 W to 5000.0 W / Resolution : 80.0 mW         Setting range : 0.00 W to 6000.0 W / Resolution : 96				
FOP Voltage(UVP)			Setting range: 0.00 V to 150	0.00 V / Resolution : 0.0025 V 99999 sec. / Resolution : 1 sec.				
TOP TIME TOP CAP.AH			Setting range : OFF, 0.1 AH to	19999 AH / Resolution : 0.1 AH				
FOP CAP.WH EQ Load Mode ( remote only )			Setting range : OFF, 0.1 WH to	19999 WH / Resolution : 0.1 WH				
oad mode etting STEP				/ CP o 16				
ming			20 μs to 1000 μs / 2 ms to 6	55535 ms / 66 sec to 999 sec.				
esolution lynamic Mode			10 μs / 1	ms / 1 sec.				
ming nigh & Tlow			0.010 ms to 9.999 ms / 99	99 ms / 999.9 ms/ 9999 ms				
esolution			0.001 ms / 0.01	ms/ 0.1 ms/ 1 ms				
ccuracy lew Rate	0.0256 A/μs to 1.600 A/μs	0.2560 A/μs to 16.000 A/μs	1 μs / 10 μs / 100 0.0320 A/μs to 2.000 A/μs	μs / 1 ms + 50 ppm 0.3200 A/μs to 20.000 A/μs	0.0384 A/μs to 2.400 A/μs	0.3840 A/µs to 24.000 A/µs		
esolution Iin. Rise Time	0.0064 A/μs	0.064 A/μs	0.008 A/μs	0.08 A/μs typical)	0.0096 A/μs	0.096 A/μs		
ccuracy				etting )±10 μs				
urrent ange	0 A to 40 A	40 A to 400 A	0 A to 50 A	50 A to 500 A	0 A to 60 A	60 A to 600 A		
esolution onf Key Parameter	0.64 mA	6.4 mA	0.8 mA	8 mA	0.96 mA	9.6 mA		
Oon Voltage			Setting range : 0.25 V to 6	2.50 V / Resolution : 0.25 V .250 V / Resolution : 0.0025 V				
PoFF Voltage verage Times			0 t	0 64				
V Res. Speed easurement			1 to 4 (	Fastest)				
oltage Read Back Range (5 Digital)	0 V to 15 V 0.25 mV	15 V to 150 V 2.5 mV	0 V to 15 V 0.25 mV	15 V to 150 V 2.5 mV	0 V to 15 V 0.25 mV	15 V to 150 V 2.5 mV		
Resolution Accuracy			± 0.025 % of (R	eading + Range)				
urrent Read Back Range (5 Digital) Resolution	0 A to 40 A 0.64 mA	40 A to 400 A 6.4 mA	0 A to 50 A 0.8 mA	50 A to 500 A 8 mA	0 A to 60 A 0.96 mA	60 A to 600 A 9.6 mA		
Accuracy ower Read Back Range (5 Digital)		«W	± 0.05 % of (Re	eading + Range) kW	•	kW		
Resolution	41	•••	0.0	1 W	1			
Accuracy*4 eneral			± 0.06 % of (Re	eading + Range)				
pical Short Resistance aximum Short Current		mΩ 0 A		mΩ 0 A		mΩ 0 A		
ad ON Voltage	40		0.25 V t	to 62.5 V	1 60			
ad OFF Voltage put Range & Power Consumption	0 V to 62.25 V 100 Vac to 240 Vac,47 Hz to 63 Hz ; 550 VA(max.)							
mension(H x W x D) eight	37 hr.	±0.5 kg	100 vac to 240 vac,47 m2 to 5 m2; 550 v4(max.) 177 mm x 440 mm x 745 mm 32.5 kg ± 0.5 kg		32 5 ba	± 0.5 kg		
	32 kg ±0.5 kg 32.5 kg ± 0.5 kg 32.5 kg ± 0.5 kg 0°C to 40°C CE							
emperature" <sup>8</sup> afety & EMC								

Note \*1 : The power rating specifications at ambient temperature = 25 °C
Note \*2 : The range is automatically or forcing to range II only in CC mode
Note \*3 : If the operating current is below range 0.1 %, the accuracy specification is 0.1 % F.S.
Note \*4 : Power range = Vrange x Irange
Note \*5 : Turbo mode for up to 1.5X Current rating & Power rating support Surge, Bms, Short/OCP/OPP test function

Note  $^+6$ : The best accuracy of OCP/OPP test is Istep/Pstep = 1% FS Note  $^+7$ : Bms Test function for Battery Management System Boars SHORT, OCCP and OCDP Test Note  $^+8$ : Operating temperature range is  $0^+$  Cto 40  $^+$ C, All specifications apply for 25  $^+$ C  $^+$ Except as noted Note  $^+8$ : Operating temperature range is  $0^+$ C to 40  $^+$ C, All specifications apply for 25  $^+$ C, Except as noted Note  $^+8$ : The specification is valid only for input voltage  $^-1.5^+$ C and resistance setting  $^-$ 0.0037  $\Omega$ (PEL-5004G-150-400), 0.003  $\Omega$ (PEL-5005G-150-500), 0.0032  $\Omega$ (PEL-500FG-150-600).

Model Power <sup>®1</sup>	PEL-5004G-600-280 0 W to 4 kW 0 W to 6 kW max. *1		PEL-5006G-600-350 0 W to 5 kW 0 W to 7.5 kW max. 1		PEL-5004G-600-420 0 W to 6 kW 0 W to 9 kW max.*1			
ower urrent oltage	0 A to 280 A	0 A to 420 A max. 1	0 A to 350 A	0 W to 7.5 kW max. 0 A to 525 A max.	0 A to 420 A	0 A to 630 A max. 10 600 V		
in. Operating Voltage otections	10 V@	0280 A		9350 A	10 V@	⊕420 A		
ver Power Protection(OPP) ver Current Protection(OCP)			10	5% 4%				
ver Voltage Protection(OVP) ver Temp Protection(OTP) onstant Current Mode	105% 90 °C±5 °C							
ange°2	0 A to 28 A 0.448 mA	0 A to 280 A 4.48mA	0 A to 35 A 0.56 mA	0 A to 350 A 5.6 mA	0 A to 42 A 0.672 mA	0 A to 420 A 6.72 mA		
curacy <sup>3</sup> onstant Resistance Mode				etting + Range)				
ange esolution	128610 Ω to 2.1435 Ω 8 μS	2.1435 Ω to 0.0357 Ω 35.73 μΩ	102888 Ω to 1.7148 Ω 10 μS	1.7148 Ω to 0.0285 Ω 28.584 μΩ	85740 Ω to 1.4290 Ω 12 μS	1.4290 Ω to 0.0238 Ω 23.82 μΩ		
ccuracy onstant Voltage Mode	± (0.1 %(Vin / Setting) +0.1 % IF.S.)	± (0.2 %(Vin / Setting) +0.5 % IF.S.)	± (0.1 %(Vin / Setting) +0.1 % IF.S.)	± (0.2 %(Vin / Setting) +0.5 % IF.S.)	± (0.1 %(Vin / Setting) +0.1 % IF.S.)	± (0.2 %(Vin / Setting) +0.5 % IF.		
ange esolution ccuracy	0 V to 600 V 10 mV ± 0.05% of (Setting + Range)							
onstant Power Mode ange	0 W to 400 W	400 W to 4 kW	0 W to 500 W	500 W to 5 kW	0 W to 600 W	600 W to 6 kW		
esolution ccuracy*4	6.4 mW	64 mW	8 mW ± 0.1 % of (Se	80 mW etting + Range)	9.6 mW	96 mW		
onstant Voltage Mode + Current Limit I ange	600 V	280 A	600 V	350 A	600 V	420 A		
esolution ccuracy <sup>ň4</sup> onstant Voltage Mode + Power Limit M	10 mV ± 0.05 % of (Setting + Range)	4.48 mA ± 1.0 % of (Setting + Range)	10 mV ± 0.05 % of (Setting + Range)	5.6 mA ± 1.0 % of (Setting + Range)	10 mV ± 0.05 % of (Setting + Range)	6.72 mA ± 1.0 % of (Setting + Range)		
ange esolution	600 V	4 kW 64 mW	600 V 10 mV	5 kW 80 mW	600 V 10 mV	6 kW 96 mW		
ccuracy° <sup>4</sup> urbo Mode <sup>°5</sup>	± 0.05 % of (Setting + Range)  OFF	± 1.0 % of (Setting + Range) ON	± 0.05 % of (Setting + Range)  OFF	± 1.0 % of (Setting + Range) ON	± 0.05 % of (Setting + Range) OFF	± 1.0 % of (Setting + Range) ON		
nort / OCP / OPP Test Function ax. Current	280 A	420 A	350 A	525 A	420 A	630 A		
lax. Power est Accuracy <sup>°6</sup>	4000 W 100 ms to 10000 ms	6000 W	5000 W ± 1.0 % of (Re	ading + Range)	6000 W 100 ms to 10000 ms	9000 W		
nort Time etting. Accuracy	Continuous	100 ms to 2000 ms	Continuous ±5	100 ms to 2000 ms	Continuous	100 ms to 2000 ms		
hort V Hi hort V Lo			Setting range : 0.00 V to 60 Setting range : 0.00 V to 60	00.00 V / Resolution : 0.01 V 00.00 V / Resolution : 0.01 V				
CP Time (Tstep) etting. Accuracy	100 ms	20 ms	100 ms ±5	20 ms ms	100 ms	20 ms		
OCP ISTAR / ISTEP / ISTOP	Setting range : 0.00 A to 280.00 A / Resolution : 4.48 mA	Setting range : 0.00 A to 420.00 A / Resolution : 6.72 mA	Setting range : 0.00 A to 350.00 A / Resolution : 5.6 mA	Setting range : 0.00 A to 525.00 A / Resolution : 8.4 mA 00.00 V / Resolution : 0.01 V	Setting range : 0.00 A to 420.00 A / Resolution : 6.72 mA	Setting range : 0.00 A to 630.00 A Resolution : 10.08 mA		
PPP Time(Tstep) etting. Accuracy	100 ms	20 ms	100 ms	20 ms	100 ms	20 ms		
OPP PSTAR / PSTEP / PSTOP	Setting range : 0.00 W to 4000.0 W / Resolution : 64.0 mW	Setting range : 0.00 W to 6000.0 W / Resolution : 96.0 mW	Setting range : 0.00 W to 5000.0 W / Resolution : 80.0 mW	Setting range : 0.00 W to 7500.0 W / Resolution : 120 mW	Setting range : 0.00 W to 6000.0 W / Resolution : 96 mW	Setting range : 0.00 W to 9000.0 V Resolution : 144 mW		
PP VTH MS Test Mode +7				0.00 V / Resolution : 0.01 V				
lax. Current leas. Accuracy <sup>6</sup>	280 A	420 A		525 A ading + Range )	420 A	630 A		
hort test Time leas. Accuracy			±0.0	Resolution : 0.01 ms 12 ms 15 ms				
etting Accuracy hort ITH	Setting range : 0.13 A to 140.00 A / Resolution : 4.48 mA	Setting range : 0.20 A to 210.00 A / Resolution : 6.72 mA	Setting range : 0.16 A to 175.00 A / Resolution : 5.6 mA	Setting range : 0.25 A to 262.50 A / Resolution : 8.4 mA	Setting range : 0.20 A to 210.00 A / Resolution : 6.72 mA	Setting range : 0.30 A to 315.0 A Resolution : 10.08 mA		
OCP ISTAR	Setting range : 0.44 A to 280.00 A / Resolution : 4.48 mA	Setting range : 0.67 A to 420.00 A / Resolution : 6.72 mA	Setting range : 0.56 A to 350.00 A / Resolution : 5.6 mA	Setting range: 0.84 A to 525.00 A / Resolution: 8.4 mA	Setting range : 0.67 A to 420.00 A / Resolution : 6.72 mA	Setting range: 1.00 A to 630.00 A Resolution: 10.08 mA		
OCP TSTEP	0.05 ms to 10 ms 11 ms to 1000 ms	0.05 ms to 10 ms	0.05 ms to 10 ms 11 ms to 1000 ms	0.05 ms to 10 ms	0.05 ms to 10 ms 11 ms to 1000 ms	0.05ms to 10 ms		
Meas. Accuracy OCP ISTEP	±0.1 ms / ±0.5 ms Setting range : 0.00 A to 280.00 A / Resolution : 4.48 mA	±0.5 ms Setting range : 4.20 A to 420.00 A / Resolution : 6.72 mA	±0.1 ms / ±0.5 ms Setting range : 0.00 A to 350.00 A / Resolution : 5.6 mA	±0.5 ms Setting range : 5.25 A to 525.00 A / Resolution : 8.4 mA	±0.1 ms / ±0.5 ms Setting range : 0.00 A to 420.00 A / Resolution : 6.72 mA	±0.5 ms Setting range : 6.30 A to 630.00 A Resolution : 10.08 mA		
OCP ISTOP	Setting range : 0.44 A to 280.00 A / Resolution : 4.48 mA	Setting range : 0.67 A to 420.00 A / Resolution : 6.72 mA	Setting range : 0.56 A to 350.00 A / Resolution : 5.6 mA	Setting range : 0.84 A to 525.00 A / Resolution : 8.4 mA	Setting range : 0.67 A to 420.00 A / Resolution : 6.72 mA	Setting range : 1.00 A to 630.00 A Resolution : 10.08 mA		
CP ITH	Setting range : 0.13 A to 140.00 A / Resolution : 4.48 mA	Setting range : 0.20 A to 210.00 A / Resolution : 6.72 mA	Setting range : 0.17 A to 175.00 A / Resolution : 5.6 mA	Setting range: 0.26 A to 262.50 A / Resolution: 8.4 mA	Setting range : 0.20 A to 210.00 A / Resolution : 6.72 mA	Setting range: 0.30 A to 315.00 A Resolution: 10.08 mA		
urge Test Mode urge Current	0 A to 420 A 0 A to 525 A 0 A					630 A		
ormal Current urge Time	0 A to 210 A 10 ms to 2000 ms		0 A to 262.5 A 10 ms to 2000 ms 1 to 5		0 A to 315 A 10 ms to 2000 ms 1 to 5			
urge Step att test Mode Mode CC	1 to 5  Setting range : 0.00 A to 280.00 A / Resolution : 4.48 mA		Setting range : 0.00 A to 350.00 A / Resolution : 5.6 mA		1 to 5  Setting range: 0.00 A to 420.00 A / Resolution: 6.72 mA			
Mode CP TOP Voltage (UVP)	Setting range : 0.00 W to 400		Setting range: 0.00 W to 5000.0 W / Resolution: 80.0 mW Setting range: 0.00 V to 600.00 V / Resolution: 0.01 V		Setting range: 0.00 K to 420.00 K / Resolution: 6.72 mK			
TOP TIME TOP CAP.AH			Setting range : OFF + 0.1 AH to	99999 sec. / Resolution : 1 sec. 19999 AH / Resolution : 0.1 AH				
TOP CAP.WH EQ Load Mode ( remote only )				19999 WH / Resolution : 0.1 WH				
oad Mode etting STEP iming			2 t	/ CP o 16 55535 ms / 66 sec. to 999 sec.				
esolution lynamic Mode				ms / 1 sec.				
iming high & Tlow				99 ms / 999.9 ms / 9999 ms				
desolution accuracy	0.001 ms/ 0.01 ms/ 0.1 ms/ 1 ms 1 µs / 10 µs / 100 µs / 1 ms + 50 ppm							
lew Rate resolution	0.01792 A/μs to 1.120 A/μs 0.00448 A/μs	0.1792 A/μs to 11.200 A/μs 0.0448 A/μs	0.0224 A/μs to 1.400 A/μs 0.0056 A/μs	0.2240 A/μs to 14.00 A/μs 0.056 A/μs	0.02688 A/μs to 1.680 A/μs 0.00672 A/μs	0.2688 A/μs to 16.800 A/μs 0.0672 A/μs		
Min. Rise Time ccuracy urrent			25 µs( ±( 5 % of Se	typical) etting )±10 μs				
urrent ange esolution	0 A to 28 A 0.45 mA	28 A to 280 A 4.48 mA	0 A to 35 A 0.56 mA	35 A to 350 A 5.6 mA	0 A to 42 A 0.67 mA	42 A to 420 A 6.72 mA		
onf Key Parameter Don Voltage	•		Setting range : 0.4 V to 1	00.0 V / Resolution : 0.4 V	•			
DoFF Voltage verage Times			0 t	9.60 V / Resolution : 0. 01 V				
V Res. Speed	0.744 60.77	60.N+* 600.N		Fastest)	0.000	607/4- 6007		
oltage Read Back Range (5 Digital)  Resolution  Accuracy	0 V to 60 V 1.00 mV	60 V to 600 V 10.0 mV	0 V to 60 V 1.00 mV + 0.025 % of (R	60 V to 600 V 10.0 mV eading + Range)	0 V to 60 V 1.00 mV	60 V to 600 V 10.0 mV		
urrent Read Back Range (5 Digital) Resolution	0 A to 28 A 0.448 mA	28 A to 280 A 4.48 mA	± 0.025 % of (R 0 A to 35 A 0.56 mA	35 A to 350 A 5.6 mA	0 A to 42 A 0.672 mA	42 A to 420 A 6.72 mA		
Accuracy ower Read Back Range (5 Digital)	0.446 mix 4.40 mix 4.		± 0.05 % of (Reading + Range) 5 kW		6 kW			
Resolution Accuracy*4			$0.01 \text{ W}$ $\pm 0.06 \% \text{ of (Reading + Range)}$					
eneral ypical Short Resistance	35.73 mΩ		$28.584~\text{m}\Omega$		23.82 mΩ			
Maximum Short Current oad ON Voltage oad OFF Voltage	280 A		0.4 V t	350 A 0.4 V to 100 V		0 A		
oad OFF Voltage  nput Range & Power Consumption  bimension(H x W x D)			0 V to 99.6 V 100 Vac to 240 Vac,47 Hz to 63 Hz ; 550 VA(max.) 177 mm x 440 mm x 745 mm					
/eight emperature <sup>*8</sup>	32.5 kg ±0.5 kg		177 mm x 440 mm x 745 mm 33 kg ± 0.5 kg 0 °C to 40 °C		33 kg ± 0.5 kg			
afety & EMC	1			0 °C to 40 °C C E		ing & Power rating support Surge, Bms, Short/OCP/OPP test function		

Note \*1: The power rating specifications at ambient temperature = 25 °C
Note \*2: The range is automatically or forcing to range II only in CC mode
Note \*3: If the operating current is below range 0.3 %, the accuracy specification is 0.1 % F.S.
Note \*4: Power range = Vrange x Irange (the specification is valid only for the model PEL-600-XXX with loading current > 0.03 % F.S.)

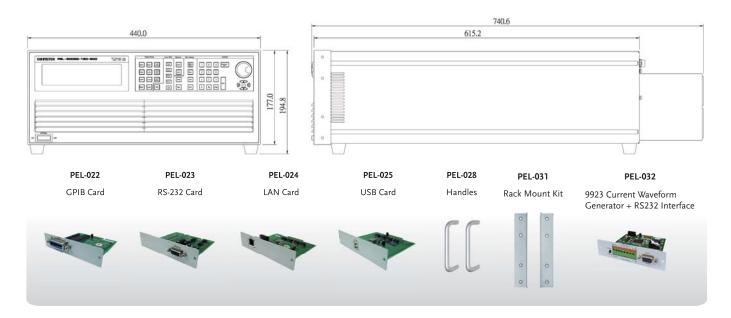
Note  $^*5$ : Turbo mode for up to 1.5X Current rating & Power rating support Surge, Bms, Short/OCP/OPP test fur Note  $^*6$ : The best accuracy of OCP/OPP test is Istep/Pstep = 1 % FS Note  $^*7$ : Bms Test function for Battey Management System Board SHORT, OCCP and OCDP Test Note  $^*8$ : Operating temperature range is 0 °C to 40 °C, All specifications apply for 25 °C  $\pm$  5 °C, Except as noted

Model Power <sup>°1</sup>	PEL-5004G-1200-160 0 W to 4 kW 0 W to 6 kW max. <sup>61</sup>		PEL-5005G-1200-200 0 W to 5 kW 0 W to 7.5 kW max. 1		PEL-5006G-1200-240 0 W to 6 kW 0 W to 9 kW max. *1			
urrent oltage	0 A to 160 A 0 V to	0 A to 240 A max. 1 1200 V	0 A to 200 A 0 V to	0 A to 300 A max.*1	0 A to 240 A 0 V to	0 A to 360 A max.*1		
in. Operating Voltage otections	15 V@	)160 A		200 A	15 V@	@240 A		
ver Power Protection(OPP) ver Current Protection(OCP)			10	05% 04% 05%				
ver Voltage Protection(OVP) ver Temp Protection(OTP) onstant Current Mode				0±5 °C				
ange <sup>°2</sup> esolution	0 A to 16 A 0.256 mA	0 A to 160 A 2.56 mA	0 A to 20 A 0.32 mA	0 A to 200 A 3.2 mA	0 A to 24 A 0.384 mA	0 A to 240 A 3.84 mA		
ccuracy <sup>3</sup> onstant Resistance Mode				etting + Range)				
ange esolution	450 kΩ to 7.5 Ω 2.2 μS	7.5 Ω to 0.0937 Ω 125 μΩ	360 kΩ to 6 Ω 2.8 μS	6 Ω to 0.075 Ω 100 μΩ	300 kΩ to 5 Ω 3.3 μS	5 Ω to 0.0625 Ω 83.34 μΩ		
ccuracy onstant Voltage Mode ange	± (0.1 %(Vin / Setting) +0.1 % IF.S.)	± (0.2 %(Vin / Setting) +0.5 % IF.S.)	± (0.1 %(Vin / Setting) +0.1 % IF.S.)	± (0.2 %(Vin / Setting) +0.5 % IF.S.)	± (0.1 %(Vin / Setting) +0.1 % IF.S.)	± (0.2 %(Vin / Setting) +0.5 % IF.		
esolution ccuracy	20 mV ± 0.05 % of (Setting + Range)							
onstant Power Mode ange	0 W to 400 W	400 W to 4 kW	0 W to 500 W	500 W to 5 kW	0 W to 600 W	600 W to 6 kW		
esolution ccuracy <sup>*4</sup> onstant Voltage Mode + Current Limit I	6.4 mW	64 mW	8 mW ± 0.2 % of (So	80 mW etting + Range)	9.6 mW	96 mW		
ange esolution	1200 V 20 mV	160 A 2.56 mA	1200 V 20 mV	200 A 3.2 mA	1200 V 20 mV	240 A 3.84 mA		
ccuracy*4 onstant Voltage Mode + Power Limit M	± 0.05 % of (Setting + Range)	± 1.0 % of (Setting + Range)	± 0.05 % of (Setting + Range)	± 1.0 % of (Setting + Range)	± 0.05 % of (Setting + Range)	± 1.0 % of (Setting + Range)		
ange esolution	1200 V 20 mV	4 kW 64 mW	1200 V 20 mV	5 kW 80 mW	1200 V 20 mV	6 kW 96 mW		
ccuracy <sup>34</sup> urbo Mode <sup>55</sup> nort / OCP / OPP Test Function	± 0.05 % of (Setting + Range) OFF	± 1.0 % of (Setting + Range) ON	± 0.05 % of (Setting + Range)  OFF	± 1.0 % of (Setting + Range) ON	± 0.05 % of (Setting + Range) OFF	± 1.0 % of (Setting + Range) ON		
ax. Current	160 A	240 A	200 A 5000 W	300 A 7500 W	240 A	360 A		
est Accuracy 6	4000 W 100 ms to 10000 ms	6000 W		ading + Range)	6000 W 100 ms to 10000 ms	9000 W		
nort Time etting. Accuracy	Continuous							
hort V Hi hort V Lo	Setting range : 0.25 V to 1200.0 V / Resolution : 0.02 V  Setting range : 0.000 V to 1200.0 V / Resolution : 0.02 V							
PCP Time(Tstep) etting. Accuracy	100 ms Setting range : 0.00 A to 160.00 A /	20 ms Setting range : 0.00 A to 240.00 A /	100 ms ±5 Setting range : 0.00 A to 200.00 A /	20 ms ms Setting range : 0.00 A to 300.00 A /	100 ms  Setting range : 0.00 A to 240.00 A /	20 ms Setting range : 0.00 A to 360.00 A		
CP ISTAR / ISTEP / ISTOP	Resolution : 2.56 mA	Resolution : 3.84 mA	Resolution: 3.2 mA	Resolution : 4.8 mA 00.00 V / Resolution : 0.02 V	Resolution : 3.84 mA	Resolution : 5.76 mA		
PPP Time(Tstep) etting. Accuracy	100 ms	20 ms	100 ms ±5	20 ms	100 ms	20 ms		
PPP PSTAR / PSTEP / PSTOP	Setting range : 0.00 W to 4000.0 W / Resolution : 64.0 mW	Setting range : 0.00 W to 6000.0 W / Resolution : 96.0 mW	Setting range : 0.00 W to 5000.0 W / Resolution : 80.0 mW	Setting range : 0.00 W to 7500.0 W / Resolution : 120 mW 00.00 V / Resolution : 0.02 V	Setting range : 0.00 W to 6000.0 W / Resolution : 96 mW	Setting range : 0.00 W to 9000.0 V Resolution : 144 mW		
MS Test Mode =7	160 A	240 A	200 A	300 A	240 A	360 A		
leas. Accuracy <sup>6</sup> hort test Time	100%	270 A	±3.0 % of ( Re	ading + Range ) Resolution : 0.01 ms	270 A	300 A		
eas. Accuracy etting Accuracy			±0.0 ±0.0	02 ms 05 ms				
hort ITH	Setting range : 0.07 A to 80.00 A / Resolution : 2.56 mA	Setting range: 0.11 A to 120.00 A / Resolution: 3.84 mA	Setting range : 0.09 A to 100.00 A / Resolution : 3.2 mA	Setting range : 0.14 A to 150.00 A / Resolution : 4.8 mA	Setting range : 0.11 A to 120.00 A / Resolution : 3.84 mA	Setting range: 0.17 A to 180.00 A Resolution: 5.76 mA		
CP ISTAR	Setting range : 0.25 A to 160.00 A / Resolution : 2.56 mA 0.05 ms to 10 ms	Setting range : 0.38 A to 240.00 A / Resolution : 3.84 mA	Setting range : 0.32 A to 200.00 A / Resolution : 3.2 mA 0.05 ms to 10 ms	Setting range : 0.48 A to 300.00 A / Resolution : 4.8 mA	Setting range : 0.38 A to 240.00 A / Resolution : 3.84 mA 0.05 ms to 10 ms	Setting range : 0.57 A to 360.00 A Resolution : 5.76 mA		
CP TSTEP leas. Accuracy	11 ms to 1000 ms ±0.1 ms / ±0.5 ms	0.05 ms to 10 ms ±0.5 ms	11 ms to 1000 ms ±0.1 ms / ±0.5 ms	0.05 ms to 10 ms ±0.5 ms	11 ms to 1000 ms ±0.1 ms / ±0.5 ms	0.05 ms to 10 ms ±0.5 ms		
CP ISTEP	Setting range : 0.00 A to 160.00 A / Resolution : 2.56 mA	Setting range : 2.40 A to 240.00 A / Resolution : 3.84 mA	Setting range : 0.00 A to 200.00 A / Resolution : 3.2 mA	Setting range : 3.00 A to 300.00 A / Resolution : 4.8 mA	Setting range : 0.00 A to 240.00 A / Resolution : 3.84 mA	Setting range : 3.60 A to 360.00 A Resolution : 5.76 mA		
CP ISTOP	Setting range : 0.25 A to 160.00 A / Resolution : 2.56 mA Setting range : 0.10 A to 80.00 A /	Setting range : 0.38 A to 240.00 A / Resolution : 3.84 mA Setting range : 0.15 A to 120.00 A /	Setting range : 0.32 A to 200.00 A / Resolution : 3.2 mA Setting range : 0.10 A to 100.00 A /	Setting range : 0.48 A to 300.00 A / Resolution : 4.8 mA Setting range : 0.15 A to 150.00 A /	Setting range : 0.38 A to 240.00 A / Resolution : 3.84 mA Setting range : 0.10 A to 120.00 A /	Setting range: 0.57 A to 360.00 A Resolution: 5.76 mA Setting range: 0.15 A to 180.00 A		
OCP ITH urge Test Mode	Resolution : 2.56 mA	Resolution : 3.84 mA	Resolution : 3.2 mA	Resolution : 4.8 mA	Resolution : 3.84 mA	Resolution : 5.76 mA		
urge Current ormal Current	0 A to	240 A 120 A	0 A to 300 A 0 A to 150 A		0 A to 360 A 0 A to 180 A			
urge Time urge Step	10 ms to 2000 ms 11 to 5		10 ms to 2000 ms 1 to 5		10 ms to 2000 ms 1 to 5			
att test Mode fode CC fode CP		0.00 A / Resolution : 2.56 mA 10.0 W / Resolution : 64.0 mW	Setting range: 0.00 A to 200.00 A / Resolution: 3.2 mA Setting range: 0.00 W to 5000.0 W / Resolution: 80.0 mW		Setting range: 0.00 A to 240.00 A / Resolution: 3.84 mA Setting range: 0.00 W to 6000.0 W / Resolution: 96 mW			
TOP Voltage (UVP) TOP TIME	Setting range : 0.00 w to 400	0.0 W / Resolution : 04.0 mw	Setting range: 0.00 V to 12	00.00 V / Resolution : 0.02 V 99999 sec. / Resolution : 1 sec.	Setting range : 0.00 w to 00	JOU.O W / RESOLUTION . 90 HW		
TOP CAP.AH TOP CAP.WH			Setting range : OFF , 0.1 AH to	19999 AH / Resolution : 0.1 AH 19999 WH / Resolution : 0.1 WH				
EQ Load Mode ( remote only ) oad Mode				/ CP				
etting STEP iming esolution			20 μs to 1000 μs / 2 ms to 6	o 16 5535 ms / 66 sec. to 999 sec. ms / 1 sec.				
lynamic Mode iming			10 μ3 / 1	IIIS / I Sec.				
high & Tlow esolution			0.001 ms / 0.01 n	.99 ms/ 999.9 ms/ 9999 ms ns / 0.1 ms / 1 ms				
ccuracy lew Rate	0.01024 A/μs to 0.640 A/μs	0.1024 A/μs to 6.400 A/μs	0.0128 A/μs to 0.800 A/μs	μs / 1 ms + 50 ppm 0.1280 A/μs to 8.000 A/μs	0.01536 A/μs to 0.960 A/μs	0.1536 A/μs to 9.600 A/μs		
esolution Iin. Rise Time ccuracy	0.00256 A/μs	0.0256 A/μs	0.0032 A/μs 25 μs( + ( 5 % of St	0.032 A/μs (typical) etting )±10 μs	0.00384 Α/μs	0.0384 Α/μs		
ccuracy urrent ange	0 A to 16 A	16 A to 160 A	±( 3 % 07 36	20 A to 200 A	0 A to 24 A	42 A to 240 A		
esolution onf Key Parameter	0.26 mA	2.56 mA	0.32 mA	3.2 mA	0.38 mA	3.84 mA		
Don Voltage DoFF Voltage			Setting range : 0.000 V to 2	50.0 V / Resolution : 1 V 249.0 V / Resolution : 0.02 V				
verage Times V Res. Speed leasurement				o 64 (Fastest)				
oltage Read Back Range (5 Digital)  Resolution	0 V to 120 V 2.00 mV	120 V to 1200 V 20.0 mV	0 V to 120 V 2.00 mV	120 V to 1200 V 20.0 mV	0 V to 120 V 2.00 mV	120 V to 1200 V 20.0 mV		
Accuracy urrent Read Back Range (5 Digital)	0 A to 16 A	16 A to 160 A	± 0.025 % of (R 0 A to 20 A	Reading + Range) 20 A to 200 A	0 A to 24 A	24 A to 240 A		
Resolution Accuracy	0.256 mA 2.56 mA		0.32 mA 3.2 mA ± 0.05 % of (Reading + Range)		0.384 mA 3.84 mA			
ower Read Back Range (5 Digital)  Resolution	4 kW		5 kW 0.01 W ± 0.06 % of (Reading + Range)		6 kW			
Accuracy <sup>™4</sup> eneral rpical Short Resistance	93.75 mΩ		± 0.06 % of (Reading + Range)  75 mΩ		62.505 mΩ			
laximum Short Current oad ON Voltage		0 A	20 1 V to	00 A > 250 V		10 A		
oad OFF Voltage put Range & Power Consumption			0 V to 249 V 100 Vac to 240 Vac,47 Hz to 63 Hz ; 550 VA(max.)					
rimension(H x W x D) reight	32 kg ± 0.5 kg		177 mm x 440 mm x 745 mm 32.5 kg ± 0.5 kg		32.5 kg ± 0.5 kg			
emperature <sup>18</sup>			0 °C to 40 °C CE					

Note  $^*5$ : Turbo mode for up to 1.5X Current rating & Power rating support Surge, Bms, Short /OCP/OPP test function Note  $^*6$ : The best accuracy of OCP /OPP test is |SEP| = 1 % S S Note  $^*7$ : Bms Test function for Battery Management System Board SHORT, OCCP and OCDP Test Note  $^*8$ : Operating temperature range is 0 % to 40%, All specifications apply for 25%. Except as noted

Note  $\pm 1$ : The power rating specifications at ambient temperature = 25 °C Note  $\pm 2$ : The range is automatically or forcing to range II only in CC mode Note  $\pm 3$ : If the operating current is below range 0.1 %, the accuracy specification is 0.1 % F.S. Note  $\pm 4$ : Power range = Vrange x Irange

#### **EXTERNAL DIMENSIONS**





PEL-5004G-150-400 150 V/400 A/4000 W High Power DC Electronic Load PEL-5005G-150-500 150 V/500 A/5000 W High Power DC Electronic Load PEL-5006G-150-600 150 V/600 A/6000 W High Power DC Electronic Load PEL-5004G-600-280 600 V/280 A/4000 W High Power DC Electronic Load PEL-5005G-600-350 600 V/350 A/5000 W High Power DC Electronic Load PEL-5006G-600-420 600 V/420 A/6000 W High Power DC Electronic Load PEL-5004G-1200-160 1200 V/160 A/4000 W High Power DC Electronic Load PEL-5005G-1200-200 1200 V/200 A/5000 W High Power DC Electronic Load PEL-5006G-1200-240 1200 V/240 A/6000 W High Power DC Electronic Load



#### STANDARD ACCESSORIES

BANANA PLUGS x 2

BNC - BNC CABLE: BNC to BNC CABLE, 1 m x 1 HD-DSUB: 15PIN Parallel wire Parallel Wire x 1

PEL-028 HANDLES, U-shaped Handle (fixed to the bracket)

PEL-031 Rack Mount Kit For PEL-5000G

#### OPTIONAL ACCESSORIES

PEL-022 GPIB Card PEL-025 USB Card GTL-246 USB Cable, USB 2.0, A-B Type, 1200 mm PEL-023 RS-232 Card PEL-030 GPIB+RS-232 Card GTL-248 GPIB Cable, Double Shielded, 2000 mm PEL-024 LAN Card PEL-032 9923 Current Waveform Generator + RS232 Interface GTL-250 GPIB Cable, Double Shielded, 600 mm

Note: \* Regarding the product delivery date, please contact your regional sales representative.

Specifications subject to change without notice. PEL-5000G\_BH1\_E\_202504\_1000

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