

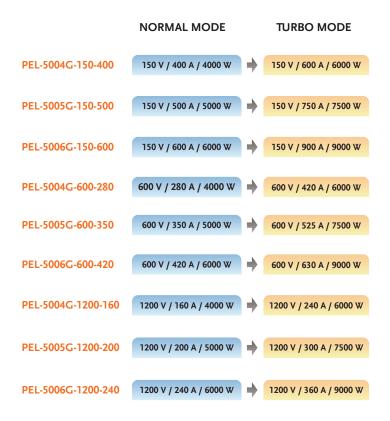
PEL-5000G Series

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 $^\circ\!\!\!C$









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

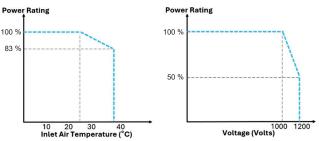
- Voltage/Current Source SMPS Transient Response
- Voltage Source Current Limit Testing and Battery Emulation for Charger Testing
- Battery Discharge Capacity
- Lithium Battery BMS Charge and Discharge Protection
- R&D, Quality Control
- ATE System
- Production Testing

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.

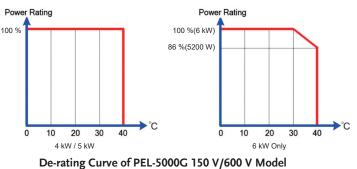
The specifications of electronic loads usually show the best conditions. The best condition is based on specific good operating conditions (warm-up 30 minutes to 60 minutes; power lab temperature (23.0 ± 2.0) °C), and the specification of an electronic load is subject to de-rating due to operating voltage, 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 $^{\circ}$ C power lab environment, the power rating capability decreases by 17 % (83 %) at an operating temperature of 40 $^{\circ}$ 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?

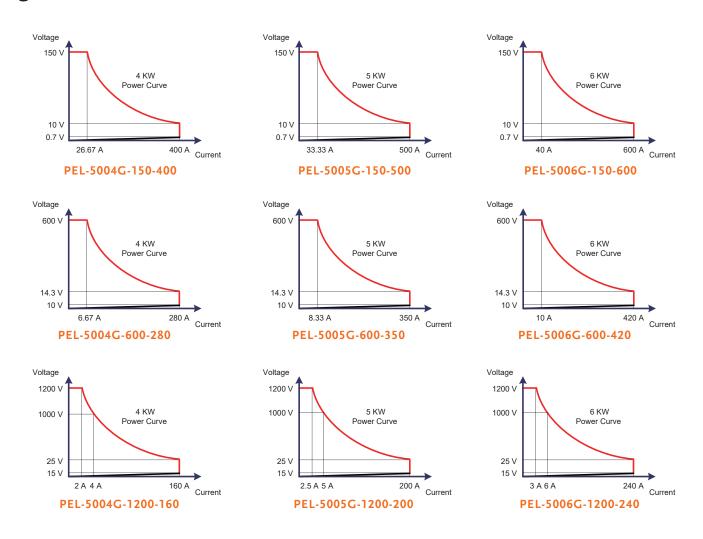


De-rating Curve of PEL-3000G 130 V/000 V Model

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

SPECIFICATIONS	B	C 150 400	B	C 150 500	B	C 150 (00		
		G-150-400		G-150-500		G-150-600		
Power ^{*1}	0 W to 4 kW	0 W to 6 kW max. ^{*1}	0 W to 5 kW	0 W to 7.5 kW max.*1	0 W to 6 kW	0 W to 9 kW max.*1		
Current	0 A to 400 A	0 A to 600 A max. ^{*1}	0 A to 500 A	0 A to 750 A max. ^{*1}	0 A to 600 A	0 A to 900 A max.*1		
Voltage	0 V to	150 V	0 V to	150 V	0 V to	150 V		
Min. Operating Voltage	0.7 V@400 A 0.7 V@500 A 0.7 V@600 A							
Protections	•							
Over Power			10	5%				
Over Current			10	4%				
Over Voltage				5%				
Over Temp								
Protection(OTP)			90 °C	± 5 °C				
Constant Current Mode								
	0 A to 40 A	0.4 += 400.4	0 A to 50 A	0.4 +- 500.4	0.4 += (0.4	0.4 to (00.4		
Range ^{*2}		0 A to 400 A		0 A to 500 A	0 A to 60 A	0 A to 600 A		
Resolution	0.64 mA	6.4 mA	0.80 mA	8.0 mA	0.96 mA	9.6 mA		
Accuracy*3			± 0.05% of (Se	etting + Range)				
Constant Resistance Mode	2					-		
Range	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		
Resolution	44 μS	6.25 μΩ	56 μS	5 μΩ	67 μS	4.167 μΩ		
Accuracy	± (0.1 %(Vin / Setting) +	± (0.2 %(Vin / Setting) +	± (0.1 %(Vin / Setting) +	± (0.2 %(Vin / Setting) +	± (0.1 %(Vin / Setting) +	± (0.2 %(Vin / Setting)		
	0.1 % IF.S.)	0.5 % IF.S.) *9	0.1 % IF.S.)	0.5 % IF.S.) *9	0.1 % IF.S.)	0.5 % IF.S.) *9		
Constant Voltage Mode	. ,		,	• 7	,			
Range			0 to	150 V				
Resolution				mV				
Accuracy	l		± 0.05 % of (S	etting + Range)				
Constant Power Mode	1			L				
Range	0 W to 400 W	400 to 4 kW	0 W to 500 W	500 W to 5 kW	0 W to 600 W	600 W to 6 kW		
Resolution	6.4 mW	64 mW	8 mW	80 mW	9.6 mW	96 mW		
Accuracy ^{*4}			± 0.2 % of (Se	etting + Range)				
Constant Voltage Mode +	Current Limit Mode							
Range	150 V	400 A	150 V	500 A	150 V	600 A		
Resolution	2.5 mV	6.4 mA	2.5 mV	8 mA	2.5 mV	9.6 mA		
Accuracy ^{*4}	± 0.05 % of (Setting +	± 1.0 % of (Setting +	± 0.05 % of (Setting +	± 1.0 % of (Setting +	± 0.05 % of (Setting +	± 1.0 % of (Setting +		
Accuracy						· · ·		
Contraction and the	Range)	Range)	Range)	Range)	Range)	Range)		
Constant Voltage Mode +								
Range	150 V	4 kW	150 V	5 kW	150 V	6 kW		
Resolution	2.5 mV	64 mW	2.5 mV	80 mW	2.5 mV	96 mW		
Accuracy ^{*4}	\pm 0.05 % of (Setting +	\pm 1.0 % of (Setting +	\pm 0.05 % of (Setting +	± 1.0 % of (Setting +	\pm 0.05 % of (Setting +	± 1.0 % of (Setting +		
	Range)	Range)	Range)	Range)	Range)	Range)		
Turbo Mode ^{*5}	OFF	ON	OFF	ON	OFF	ON		
Short / OCP / OPP Test F	unction							
Max. Current	400 A	600 A	500 A	750 A	600 A	900 A		
Max. Power	4000 W	6000 W	5000 W	7500 W	6000 W	9000 W		
Test Accuracy ^{*6}			+ 1.0 % of (Re	ading + Range)				
Short Time	100 ms to 10000 ms		100 ms to 10000 ms		100 ms to 10000 ms			
Short Time	-	100 ms to 2000 ms		100 ms to 2000 ms		100 ms to 2000 ms		
•	Continuous		Continuous		Continuous			
Setting. Accuracy				ms				
Short V Hi				0.00 V / Resolution : 0.0025				
Short V Lo		S	etting range : 0.00 V to 150	0.00 V / Resolution : 0.0025	V			
OCP Time(Tstep)	100 ms	20 ms	100 ms	20 ms	100 ms	20 ms		
Setting. Accuracy				ms		•		
OCP ISTAR / ISTEP /	Setting range : 0.00 A to	Setting range : 0.00 A to		Setting range : 0.00 A to	Setting range : 0.00 A to	Setting range : 0.00 A t		
ISTOP	400.00 A / Resolution :	600.00 A / Resolution :		750.00 A / Resolution : 12	600.00 A / Resolution :	900.00 A / Resolution		
	6.4 mA	9.6 mA	8.0 mA	mA	9.60 mA	14.4 mA		
OCP VTH		S		0.00 V / Resolution : 0.0025				
OPP Time(Tstep)	100 ms	20 ms	100 ms	, 20 ms	100 ms	20 ms		
Setting. Accuracy		20.00		ms		20110		
OPP PSTAR / PSTEP /	Setting range : 0.00 W to	Setting range : 0.00 W to	Setting range : 0.00 W to	-	Setting range : 0.00 W to	Setting range : 0.00 W t		
PSTOP	4000.0 W / Resolution :	6000.0 W / Resolution :	5000.0 W / Resolution :	7500.0 W / Resolution :	6000.0 W / Resolution :	9000.0 W / Resolution		
10101	64.0 mW	96.0 mW	80.0 mW	120 mW	96 mW	144 mW		
OPP VTH	5.10.11.4			0.00 V / Resolution : 0.0025				
BMS Test Mode *7			BBe - 0.00 7 to 150					
	400.4	COO A	F00 A	750 4	C00 A	000.4		
Max. Current	400 A	600 A	500 A	750 A	600 A	900 A		
Meas. Accuracy*6				ading + Range)				
Short test Time			0.05 ms to 10 ms /	Resolution : 0.01 ms				
Meas. Accuracy			±0.0	2 ms				
Setting Accuracy			±0.0	5 ms				
Short ITH	Setting range : 0.19 A to	Setting range : 0.28 A to	Setting range : 0.24 A to		Setting range : 0.28 A to	Setting range : 0.43 A		
	200.00 A / Resolution :	300.00 A / Resolution :		375.00 A / Resolution : 12	300.00 A / Resolution :	450.00 A / Resolution		
	· ·	9.6 mA	8.0 mA	mA	9.6 mA	14.4 mA		
	0.4 mA							
OCP ISTAR	6.4 mA Setting range : 0.64 A to		Setting range : 0.80 A to		Setting range : 0.96 A to			
OCP ISTAR	Setting range : 0.64 A to 400.00 A / Resolution :	Setting range : 0.96 A to 600.00 A / Resolution :		Setting range : 1.20 A to 750.00 A / Resolution : 12	Setting range : 0.96 A to 600.00 A / Resolution :	Setting range : 1.44 A to 900.00 A / Resolution :		

SPECIFICATIONS							
	PEL-5004G-150-400		PEL-5005G-150-500		PEL-5006G-150-600		
OCP TSTEP	0.05 ms to 10 ms	0.05 mg to 30	0.05 ms to 10 ms	0.05 mg to 10 mg	0.05 ms to 10 ms	0.05 mg to 10 mg	
	11 ms to 1000 ms	0.05 ms to 10 ms	11 ms to 1000 ms	0.05 ms to 10 ms	11 ms to 1000 ms	0.05 ms to 10 ms	
Meas. Accuracy	± 0.1 ms / ± 0.5 ms	± 0.5 ms	± 0.1 ms / ± 0.5 ms	± 0.5 ms	± 0.1 ms / ± 0.5 ms	± 0.5 ms	
OCP ISTEP	Setting range : 0.00 A to	Setting range : 6.00 A to	Setting range : 0.00 A to	Setting range : 7.50 A to	Setting range : 0.00 A to	Setting range : 9.00 A t	
	400.00 A / Resolution : 6.4 mA	600.00 A / Resolution : 9.6 mA	500.00 A / Resolution : 8.0 mA	750.00 A / Resolution : 12 mA	600.00 A / Resolution : 9.6 mA	900.00 A / Resolution 14.4 mA	
OCP 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 t 900.00 A / Resolution 14.4 mA	
OCP ITH	Setting range : 0.19 A to 200.00 A / Resolution :	Setting range : 0.29 A to 300.00 A / Resolution :	Setting range : 0.24 A to 250.00 A / Resolution :	Setting range : 0.37 A to 375.00 A / Resolution : 12	Setting range : 0.29 A to 300.00 A / Resolution :	Setting range : 0.44 A t 450.00 A / Resolution	
	6.4 mA	9.6 mA	8.0 mA	mA	9.6 mA	14.4 mA	
Surge Test Mode	1		r				
Surge Current		600 A		750 A	0 A to 90		
Normal Current					to 450 A		
Surge Time		2000 ms		2000 ms		2000 ms	
Surge Step	l It	o 5	1	io 5	l t	o 5	
Batt test Mode					0.00		
Mode CC	Resolutio	00 A to 400.00 A / n : 6.4 mA	Resolutio	00 A to 500.00 A / n : 8.0 mA	Resolutio	00 A to 600.00 A / n : 9.6 mA	
Mode CP		00 W to 4000.0 W / : 64.0 mW	Resolution	00 W to 5000.0 W / n : 80.0 mW	Resolutio	10 W to 6000.0 W / n : 96 mW	
STOP Voltage (UVP)			0 0	0.00 V / Resolution : 0.0025			
STOP TIME		Setting range : OFF , 1 sec. to 99999 sec. / Resolution : 1 sec.					
STOP CAP. AH	Setting range : OFF, 0.1 AH to 19999 AH / Resolution : 0.1 AH						
STOP CAP. WH	L	Settir	ng range : OFF, 0.1 WH to	19999 WH / Resolution : 0.	1 WH		
SEQ Load Mode (remote	only)						
Load Mode				/ CP			
Setting STEP	2 to 16						
Timing	20 μs to 1000 μs / 2 ms to 65535 ms / 66 sec to 999 sec.						
Resolution			10 μs / 1	ms / 1 sec.			
Dynamic Mode	1						
Timing Thigh & Tlow			,	99 ms / 999.9 ms/ 9999 ms			
Resolution	0.001 ms / 0.01 ms / 0.1 ms / 1 ms						
Accuracy				μs / 1 ms + 50 ppm			
Slew Rate	0.0256 A/μs to 1.600 A/μs	0.2560 A/μs to 16.000 A/μs	0.0320 A/μs to 2.000 A/μs	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	
Resolution	0.0064 A/µs	0.064 A/µs	0.008 A/µs	0.08 A/µs	0.0096 A/µs	0.096 A/µs	
Min. Rise Time				typical)			
Accuracy		Г	, ,	tting)±10 μs		[
Current Range	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	
Resolution	0.64 mA	6.4 mA	0.8 mA	8 mA	0.96 mA	9.6 mA	
Conf Key Parameter							
LDon Voltage				2.50 V / Resolution : 0.25 V			
LDoFF Voltage		Se		.250 V / Resolution : 0.0025	5 V		
Average Times				o 64			
CV Res. Speed			1 to 4 (Fastest)			
Measurement			A		A · · ·		
Voltage Read Back	0 V to 15 V	15 V to 150 V	0 V to 15 V	15 V to 150 V	0 V to 15 V	15 V to 150 V	
Resolution	0.25 mV	2.5 mV	0.25 mV	2.5 mV	0.25 mV	2.5 mV	
Accuracy Current Read Back	0.4.1.10.1	40.4.1.400.4	· · · · · · · · · · · · · · · · · · ·	eading + Range)	0.4.1.20.1	CO. 4	
Current Read Back Resolution	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	
Accuracy	0.64 mA	6.4 mA	0.8 mA	8 mA eading + Range)	0.96 mA	9.6 mA	
Power Read Back	4	A¥/		kW		<w< td=""></w<>	
Resolution	41	νw		kw 1 W	6	ν W	
				eading + Range)			
Accuracy ^{*4} General	l		± 0.00 % or (Re	aunig + italige)			
Typical Short Resistance	0 1	mΩ	1 C	m0	1 2	m0	
Maximum Short Current		0 A	1.5 mΩ 500 A		1.2 mΩ 600 A		
Load ON Voltage	40	v / i		o 62.5 V	00	• • •	
Load OFF Voltage				62.25 V			
Input Range & Power			0 v to	02.2J ¥			
Onsumption			100 Vac to 240 Vac,47 H	z to 63 Hz ; 550 VA(max.)			
Dimension(H x W x D)			177 mm v 140	mm x 745 mm			
Weight	27 1/17	±0.5 kg		± 0.5 kg	27 5 km	± 0.5 kg	
Temperature ^{*8}	52 Kg :	NB	, , , , , , , , , , , , , , , , , , ,	± 0.3 kg o 40 °C	52.5 кg	- 3.3 %6	
Safety & EMC				E			
	1		(

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 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 Note ^{*9}: The specification is valid only for input voltage >1.5 V and resistance setting > 0.0037 Ω (PEL-5004G-150-400), 0.003 Ω(PEL-5005G-150-500), 0.0025 Ω(PEL-5006G-150-600)

	PEL-50040	G-600-280		G-600-350		G-600-420						
Power ^{*1}	0 W to 4 kW	0 W to 6 kW max. *1	0 W to 5 kW	0 W to 7.5 kW max.*1	0 W to 6 kW	0 W to 9 kW max. *1						
Current	0 A to 280 A	0 A to 420 A max. ^{*1}	0 A to 350 A	0 A to 525 A max.*1	0 A to 420 A	0 A to 630 A max.*1						
Voltage	0 V to			600 V		600 V						
Min. Operating Voltage	10 V@	280 A	10 V@	0350 A	10 V@	0420 A						
Protections												
Over Power			10	5%								
Over Current	104%											
Over Voltage	105%											
Over Temp Protection(OTP)			90 °C	±5°C								
Constant Current Mode												
Range ^{*2}	0 A to 28 A	0 A to 280 A	0 A to 35 A	0 A to 350 A	0 A to 42 A	0 A to 420 A						
Resolution	0.448 mA	4.48mA	0.56 mA	5.6 mA	0.672 mA	6.72 mA						
Accuracy ^{*3}			± 0.05 % of (Se									
Constant Resistance Mode			, (
Range	128610 Ω to 2.1435 Ω	2.1435 Ω to 0.0357 Ω	102888 Ω to 1.7148 Ω	1.7148 Ω to 0.0285 Ω	85740 Ω to 1.4290 Ω	1.4290 Ω to 0.0238 Ω						
Resolution												
	8 μS ± (0.1 %(Vin / Setting) +	35.73 μΩ ± (0.2 %(Vin / Setting) + 0.5 % IF.S.)	10 μS ± (0.1 %(Vin / Setting) + 0.1 % IF.S.)	28.584 μΩ ± (0.2 %(Vin / Setting) +		23.82 μΩ ± (0.2 %(Vin / Setting) -						
Contract Value - Made	0.1 % IF.S.)	0.5 % IF.S.)	0.1 % IF.S.)	0.5 % IF.S.)	0.1 % IF.S.)	0.5 % IF.S.)						
Constant Voltage Mode				C00.1/								
Range				600 V								
Resolution				mV								
Accuracy			± 0.05 % of (Se	etting + Range)								
Constant Power Mode												
Range	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						
Resolution	6.4 mW	64 mW	8 mW	80 mW	9.6 mW	96 mW						
Accuracy ^{*4}			± 0.1 % of (Se									
Constant Voltage Mode + C	urrent Limit Mode		, (
Range	600 V	280 A	600 V	350 A	600 V	420 A						
Resolution	10 mV	4.48 mA	10 mV	5.6 mA	10 mV	6.72 mA						
Accuracy ^{*4}	± 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)						
Constant Voltage Mode + P												
Range	600 V	4 kW	600 V	5 kW	600 V	6 kW						
Resolution	10 mV	64 mW	10 mV	80 mW	10 mV	96 mW						
Accuracy ^{*4}	± 0.05 % of (Setting +	± 1.0 % of (Setting +	± 0.05 % of (Setting +	± 1.0 % of (Setting +	± 0.05 % of (Setting +	± 1.0 % of (Setting +						
,	Range)	Range)	Range)	Range)	Range)	Range)						
urbo Mode ^{*5}	OFF	ON	OFF	ON	OFF	ON						
hort / OCP / OPP Test Funct	tion											
Max. Current	280 A	420 A	350 A	525 A	420 A	630 A						
Max. Power	4000 W	6000 W	5000 W	7500 W	6000 W	9000 W						
Test Accuracy ^{*6}	1000 ₩	0000 11	± 1.0 % of (Rea		0000 11	5000 11						
Short Time	100 ms to 10000 ms		100 ms to 10000 ms		100 ms to 10000 ms							
Short Time		100 ms to 2000 ms		100 ms to 2000 ms	Continuous	100 ms to 2000 ms						
C 11 ¹ A	Continuous		Continuous		Continuous							
Setting. Accuracy				ms								
Short V Hi				0.00 V / Resolution : 0.01 V								
Short V Lo			Setting range : 0.00 V to 60	0.00 V / Resolution : 0.01 V								
OCP Time(Tstep)	100 ms	20 ms	100 ms	20 ms	100 ms	20 ms						
Setting. Accuracy			± 5	ms								
OCP ISTAR / ISTEP / ISTOP	Setting range : 0.00 A to 280.00 A / Resolution :	Setting range : 0.00 A to 420.00 A / Resolution :	Setting range : 0.00 A to 350.00 A / Resolution :	Setting range : 0.00 A to 525.00 A / Resolution :	Setting range : 0.00 A to 420.00 A / Resolution :	Setting range : 0.00 A to 630.00 A / Resolution :						
OCDUTU	4.48 mA	6.72 mA	5.6 mA	8.4 mA	6.72 mA	10.08 mA						
OCP VTH				0.00 V / Resolution : 0.01 V								
OPP Time(Tstep)	100 ms	20 ms	100 ms	20 ms	100 ms	20 ms						
Setting. Accuracy				ms								
OPP PSTAR / PSTEP / PSTOP	Setting range : 0.00 W to 4000.0 W / Resolution :	Setting range : 0.00 W to 6000.0 W / Resolution :	Setting range : 0.00 W to 5000.0 W / Resolution :	Setting range : 0.00 W to 7500.0 W / Resolution :	Setting range : 0.00 W to 6000.0 W / Resolution :	Setting range : 0.00 W to 9000.0 W / Resolution :						
	64.0 mW	96.0 mW	80.0 mW	120 mW	96 mW	144 mW						
OPP VTH			Setting range : 0.00 V to 60	00.00 V / Resolution : 0.01 V								
BMS Test Mode *7												
Max. Current	280 A	420 A	350 A	525 A	420 A	630 A						
			± 3.0 % of (Rea	ading + Range)								
Meas. Accuracy ^{*6}			0.05 ms to 10 ms /	Resolution : 0.01 ms								
		0.05 ms to 10 ms / Resolution : 0.01 ms										
Meas. Accuracy ^{*6}			,)2 ms		± 0.02 ms						
Meas. Accuracy ^{°6} Short test Time Meas. Accuracy			± 0.0									
Meas. Accuracy ^{*6} Short test Time	Setting range : 0.13 A to 140.00 A / Resolution :	Setting range : 0.20 A to 210.00 A / Resolution :	± 0.0 ± 0.0 Setting range : 0.16 A to 175.00 A / Resolution :	5 ms Setting range : 0.25 A to 262.50 A / Resolution :	Setting range : 0.20 A to 210.00 A / Resolution :	Setting range : 0.30 A to 315.0 A / Resolution :						
Meas. Accuracy ⁹⁶ Short test Time Meas. Accuracy Setting Accuracy			± 0.0 ± 0.0 Setting range : 0.16 A to	05 ms Setting range : 0.25 A to								

SPECIFICATIONS	PEL-50040	C 600 280	DEL EAAC	G-600-350	DEL EAAA	G-600-420	
Meas. Accuracy OCP ISTEP	$\pm 0.1 \text{ ms} / \pm 0.5 \text{ ms}$	± 0.5 ms	$\pm 0.1 \text{ ms} / \pm 0.5 \text{ ms}$	± 0.5 ms	$\pm 0.1 \text{ ms} / \pm 0.5 \text{ ms}$	± 0.5 ms	
OCPISTEP	Setting range : 0.00 A to 280.00 A / Resolution : 4.48 mA	Setting range : 4.20 A to 420.00 A / Resolution : 6.72 mA	Setting range : 0.00 A to 350.00 A / Resolution : 5.6 mA	Setting range : 5.25 A to 525.00 A / Resolution : 8.4 mA	Setting range : 0.00 A to 420.00 A / Resolution : 6.72 mA	Setting range : 6.30 A 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 630.00 A / Resolution 10.08 mA	
OCP 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 315.00 A / Resolution 10.08 mA	
Surge Test Mode	4.40 MA	0.72 MA	3.0 MA	0.4 MA	0.72 MA	10.08 MA	
Surge Current	0 A to	420 A	0 A to	525 A	0 A to	630 A	
Normal Current	0 A to	210 A	0 A to	262.5 A	0 A to	315 A	
Surge Time	10 ms to	2000 ms	10 ms to	2000 ms	10 ms to	2000 ms	
Surge Step	lt	o 5	1 t	o 5	l t	o 5	
Batt test Mode							
Mode CC	Resolutior		Resolutio	00 A to 350.00 A / n : 5.6 mA	Resolutior	00 A to 420.00 A / 1 : 6.72 mA	
Mode CP	Setting range : 0.0 Resolution	: 64.0 mW	Resolutior	0 W to 5000.0 W / : 80.0 mW	Resolutio	10 W to 6000.0 W / n : 96 mW	
STOP Voltage (UVP)			0 0	0.00 V / Resolution : 0.01 \			
STOP TIME			<u> </u>	99999 sec. / Resolution : 1			
STOP CAP. AH STOP CAP. WH			0 0	19999 AH / Resolution : 0.			
		Settir	ig range : OFF, 0.1 WH to	19999 WH / Resolution : 0.	IWH		
SEQ Load Mode (remote o Load Mode	oniy j			/ CD			
Setting STEP				/ CP 0 16			
Timing		21					
Resolution	20 μs to 1000 μs / 2 ms to 65535 ms / 66 sec. to 999 sec. 10 μs / 1 ms / 1 sec.						
Dynamic Mode			το με γ τη	115 / 1 Sec.			
Timing Thigh & Tlow			0.010 ms to 9.999 ms / 99.9	99 ms / 999.9 ms / 9999 m	5		
Resolution			,	ns / 0.1 ms / 1 ms			
Accuracy			,	ıs / 1 ms + 50 ppm			
Slew Rate	0.01792 A/µs to	0.1792 A/µs to	0.0224 A/µs to	0.2240 A/µs to	0.02688 A/µs to	0.2688 A/µs to	
	1.120 A/μs	11.200 A/µs	1.400 A/µs	14.00 A/µs	1.680 A/µs	16.800 A/µs	
Resolution	0.00448 A/µs	0.0448 A/µs	0.0056 A/µs	0.056 A/µs	0.00672 A/μs	0.0672 A/µs	
Min. Rise Time	25 μs(typical)						
Accuracy			±(5 % of Se	tting)±10 μs			
Current Range	0 A to 28 A	28 A to 280 A	0 A to 35 A	35 A to 350 A	0 A to 42 A	42 A to 420 A	
Resolution	0.45 mA	4.48 mA	0.56 mA	5.6 mA	0.67 mA	6.72 mA	
Conf Key Parameter							
LDon Voltage				00.0 V / Resolution : 0.4 V			
LDoFF Voltage	Setting range : 0.000 V to 99.60 V / Resolution : 0. 01 V 0 to 64						
Average Times CV Res. Speed							
Measurement			1 to 4 (Fastest)			
Voltage Read Back Range (5 Digital)	0 V to 60 V	60 V to 600 V	0 V to 60 V	60 V to 600 V	0 V to 60 V	60 V to 600 V	
Resolution	1.00 mV	10.0 mV	1.00 mV	10.0 mV	1.00 mV	10.0 mV	
Accuracy				eading + Range)			
Current Read Back Range (5 Digital)	0 A to 28 A	28 A to 280 A	0 A to 35 A	35 A to 350 A	0 A to 42 A	42 A to 420 A	
Resolution	0.448 mA	4.48 mA	0.56 mA	5.6 mA	0.672 mA	6.72 mA	
Accuracy			± 0.05 % of (Re	ading + Range)			
Power Read Back Range (5 Digital)	4 kW 5 kW 6 kW				<w .<="" td=""></w>		
Resolution				1 W			
Accuracy ^{*4}			± 0.06 % of (Re	eading + Range)			
General			00.57	40	02.02	2	
Typical Short Resistance Maximum Short Current	35.73	δ mΩ Ο Α	28.584 mΩ 350 Δ		23.82 mΩ		
Load ON Voltage	280		350 A 0.4 V to 100 V		420 A		
Load OFF Voltage				99.6 V			
Input Range & Power							
Onsumption			100 Vac to 240 Vac, 47 H	z to 63 Hz ; 550 VA (max.)			
Dimension(H x W x D)			177 mm x 440	mm x 745 mm			
Weight	32.5 kg	±0.5 kg			33 kg ±	- 0.5 kg	
	32.5 kg ±0.5 kg		33 kg ± 0.5 kg 0 °C to 40 °C		55 Kg ± 0.5 Kg		
Temperature ^{*8}			0 °C to	o 40 °C			

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 function

Note ^{*6}: The best accuracy of OCP/OPP test is Istep/Pstep = 1 % FS Note ^{*7}: Bms Test function for Battery 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

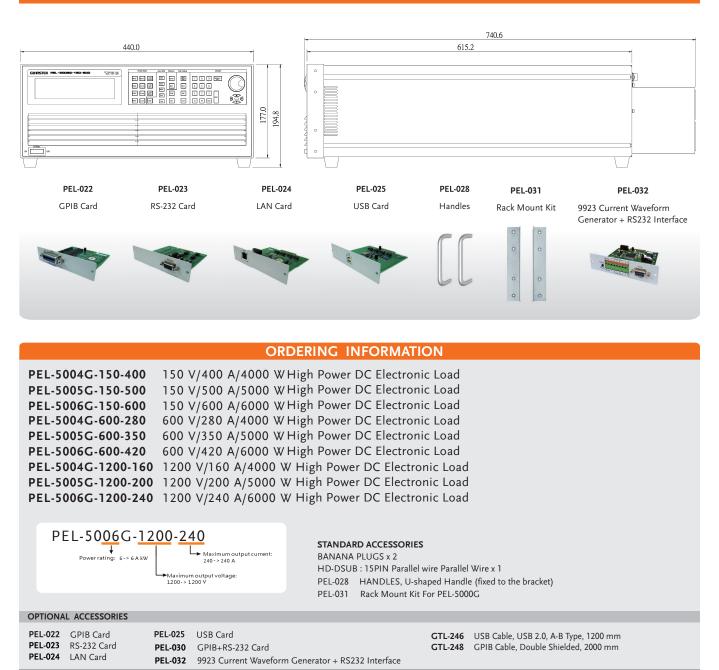
SPECIFICATIONS			•					
	PEL-50040	5-1200-160	PEL-50050	G-1200-200	PEL-50060	G-1200-240		
Power ^{*1}	0 W to 4 kW	0 W to 6 kW max.*1	0 W to 5 kW	0 W to 7.5 kW max. ^{*1}	0 W to 6 kW	0 W to 9 kW max. *1		
Current	0 A to 160 A	0 A to 240 A max.*1	0 A to 200 A	0 A to 300 A max.*1	0 A to 240 A	0 A to 360 A max.*1		
Voltage	0 V to	1200 V	0 V to	1200 V	0 V to	1200 V		
Min. Operating Voltage	15 V@160 A 15 V@200 A 15 V@240 A							
Protections								
Over Power			10	5%				
Over Current	104%							
Over Voltage	105%							
Over Temp								
Protection(OTP)			90 °C	±5°C				
Constant Current Mode								
Range ^{*2}	0 A to 16 A	0 A to 160 A	0 A to 20 A	0 A to 200 A	0 A to 24 A	0 A to 240 A		
Resolution	0.256 mA	2.56 mA	0.32 mA	3.2 mA	0.384 mA	3.84 mA		
Accuracy ^{*3}	0.250 m/t	2.50 1171	± 0.05 % of (Se		0.501117	5.011111		
Constant Resistance Mode			± 0.03 % 01 (30					
Range	450 10 10 75 0	7505000000	260 10 10 6 0	(0 to 0 075 0	200 k0 kc 5 0	E 0 to 0.002E 0		
0	450 kΩ to 7.5 Ω	7.5 Ω to 0.0937 Ω	360 kΩ to 6 Ω	6 Ω to 0.075 Ω	300 kΩ to 5 Ω	5 Ω to 0.0625 Ω		
Resolution	2.2 μS	125 μΩ	2.8 μS	100 μΩ	3.3 µS	83.34 μΩ		
	± (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.S.)		
Constant Voltage Mode								
Range			0 V to					
Resolution			20					
Accuracy			± 0.05 % of (Se	etting + Range)				
Constant Power Mode								
Range	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		
Resolution	6.4 mW	64 mW	8 mW	80 mW	9.6 mW	96 mW		
Accuracy ^{*4}			± 0.2 % of (Se					
Constant Voltage Mode + C	urrent Limit Mode		2 012 /0 01 (00					
Range	1200 V	160 A	1200 V	200 A	1200 V	240 A		
Resolution	20 mV	2.56 mA	20 mV	3.2 mA	20 mV	3.84 mA		
Accuracy ^{*4}	± 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)		
Constant Voltage Mode + P	ower Limit Mode							
Range	1200 V	4 kW	1200 V	5 kW	1200 V	6 kW		
Resolution	20 mV	64 mW	20 mV	80 mW	20 mV	96 mW		
Accuracy ^{*4}	± 0.05 % of	± 1.0 % of	± 0.05 % of	± 1.0 % of	± 0.05 % of	± 1.0 % of		
	(Setting + Range)	(Setting + Range)	(Setting + Range)	(Setting + Range)	(Setting + Range)	(Setting + Range)		
Turbo Mode ^{*5}	OFF	ON	OFF	ON	OFF	ON		
Short / OCP / OPP Test Fur	nction		•					
Max. Current	160 A	240 A	200 A	300 A	240 A	360 A		
Max. Power	4000 W	6000 W	5000 W	7500 W	6000 W	9000 W		
Test Accuracy ^{*6}	1000 11	0000 11	± 1.0 % of (Rea		0000 11	5000 11		
Short Time	100 ms to 10000 ms		100 ms to 10000 ms		100 ms to 10000 ms			
Short fille		100 ms to 2000 ms		100 ms to 2000 ms	Continuous	100 ms to 2000 ms		
C 11 ¹	Continuous		Continuous		Continuous			
Setting. Accuracy				ms				
Short V Hi			Setting range : 0.25 V to 12					
Short V Lo			Setting range : 0.000 V to 12	,				
OCP Time(Tstep)	100 ms	20 ms	100 ms	20 ms	100 ms	20 ms		
Setting. Accuracy				ms				
OCP ISTAR / ISTEP / ISTOP	Setting range : 0.00 A to 160.00 A / Resolution :	Setting range : 0.00 A to 240.00 A / Resolution :	Setting range : 0.00 A to 200.00 A / Resolution :	Setting range : 0.00 A to 300.00 A / Resolution :	Setting range : 0.00 A to 240.00 A / Resolution :	Setting range : 0.00 A to 360.00 A / Resolution :		
OCDUTU	2.56 mA	3.84 mA	3.2 mA	4.8 mA	3.84 mA	5.76 mA		
OCP VTH			Setting range : 0.00 V to 120					
OPP Time(Tstep)	100 ms	20 ms	100 ms	20 ms	100 ms	20 ms		
Setting. Accuracy				ms				
, , ,	Setting range : 0.00 W to 4000.0 W / Resolution :	Setting range : 0.00 W to 6000.0 W / Resolution :	Setting range : 0.00 W to 5000.0 W / Resolution :	Setting range : 0.00 W to 7500.0 W / Resolution :	Setting range : 0.00 W to 6000.0 W / Resolution :	Setting range : 0.00 W t 9000.0 W / Resolution		
PSTOP	C		80.0 mW	120 mW	96 mW	144 mW		
	64.0 mW	96.0 mW			1			
OPP VTH	64.0 mW		Setting range : 0.00 V to 120		V			
OPP VTH BMS Test Mode *7			Setting range : 0.00 V to 120	00.00 V / Resolution : 0.02 \				
OPP VTH BMS Test Mode *7 Max. Current	64.0 m₩ 160 A		Setting range : 0.00 V to 120	00.00 V / Resolution : 0.02 300 A	240 A	360 A		
OPP VTH BMS Test Mode *7			Setting range : 0.00 V to 120	00.00 V / Resolution : 0.02 300 A		360 A		
OPP VTH BMS Test Mode *7 Max. Current			Setting range : 0.00 V to 120 200 A ± 3.0 % of (Rea	00.00 V / Resolution : 0.02 300 A		360 A		
OPP VTH BMS Test Mode *7 Max. Current Meas. Accuracy ^{*6}			Setting range : 0.00 V to 120 200 A ± 3.0 % of (Rea	00.00 V / Resolution : 0.02 300 A ading + Range) Resolution : 0.01 ms		360 A		
OPP VTH BMS Test Mode *7 Max. Current Meas. Accuracy ⁶⁶ Short test Time Meas. Accuracy			2000 A ± 3.0 % of (Rei 0.05 ms to 10 ms / ± 0.0	00.00 V / Resolution : 0.02 300 A ading + Range) Resolution : 0.01 ms 2 ms		360 A		
OPP VTH BMS Test Mode *7 Max. Current Meas. Accuracy ⁶⁶ Short test Time Meas. Accuracy Setting Accuracy	160 A	240 A	200 A ± 3.0 % of (Rei 0.05 ms to 10 ms / ± 0.0 ± 0.0	00.00 V / Resolution : 0.02 300 A ading + Range) Resolution : 0.01 ms 2 ms 5 ms	240 A			
OPP VTH BMS Test Mode *7 Max. Current Meas. Accuracy ⁶⁶ Short test Time Meas. Accuracy			2000 A ± 3.0 % of (Rei 0.05 ms to 10 ms / ± 0.0	00.00 V / Resolution : 0.02 300 A ading + Range) Resolution : 0.01 ms 2 ms		360 A Setting range : 0.17 A to 180.00 A / Resolution : 5.76 mA		
OPP VTH BMS Test Mode *7 Max. Current Meas. Accuracy ⁶⁶ Short test Time Meas. Accuracy Setting Accuracy	160 A Setting range : 0.07 A to 80.00 A / Resolution :	240 A 240 A Setting range : 0.11 A to 120.00 A / Resolution :	200 A ± 3.0 % of (Re: 0.05 ms to 10 ms / ± 0.0 ± 0.0 ± 0.0 ± 0.0 ± 0.0 ± 0.0 ± 0.0 ± 0.0 0.05 ms to 10 ms /	00.00 V / Resolution : 0.02 ³ 300 A ading + Range) Resolution : 0.01 ms 2 ms 5 ms Setting range : 0.14 A to 150.00 A / Resolution :	240 A Setting range : 0.11 A to 120.00 A / Resolution :	Setting range : 0.17 A to 180.00 A / Resolution :		

		1200 160		1200 200	BEL FAAS	2 1000 040	
	PEL-5004G-1200-160		PEL-50050		PEL-5006G-1200-240		
Meas. Accuracy	± 0.1 ms / ± 0.5 ms	± 0.5 ms	± 0.1 ms / ± 0.5 ms	± 0.5 ms	±0.1 ms / ±0.5 ms	± 0.5 ms	
OCP 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 t 360.00 A / Resolution 5.76 mA	
OCP ISTOP	Setting range : 0.25 A to 160.00 A / Resolution :	Setting range : 0.38 A to 240.00 A / Resolution :	Setting range : 0.32 A to 200.00 A / Resolution :	Setting range : 0.48 A to 300.00 A / Resolution :	Setting range : 0.38 A to 240.00 A / Resolution :	Setting range : 0.57 A t 360.00 A / Resolution	
OCP ITH	2.56 mA Setting range : 0.10 A to 80.00 A / Resolution :	3.84 mA Setting range : 0.15 A to 120.00 A / Resolution : 3.84 mA	3.2 mA Setting range : 0.10 A to 100.00 A / Resolution :	4.8 mA Setting range : 0.15 A to 150.00 A / Resolution :	3.84 mA Setting range : 0.10 A to 120.00 A / Resolution :	5.76 mA Setting range : 0.15 A t 180.00 A / Resolution	
Surge Test Mode	2.56 mA	3.84 mA	3.2 mA	4.8 mA	3.84 mA	5.76 mA	
Surge Current	0 A to	240 A	0 A to	300 A	0 A to	360 A	
Normal Current	0 A to		0 A to		0 A to 180 A		
Surge Time	10 ms to		10 ms to 2000 ms			10 ms to 2000 ms	
Surge Step	1 t	o 5	1 t	o 5	1 t	o 5	
Batt test Mode	•						
Mode CC	Setting range : 0. Resolutior	00 A to 160.00 A / : 2.56 mA		00 A to 200.00 A / n : 3.2 mA		00 A to 240.00 A / n : 3.84 mA	
Mode CP	Setting range : 0.0 Resolution	: 64.0 mW	Setting range : 0.0 Resolution	: 80.0 mW	Resolutio	00 W to 6000.0 W / n : 96 mW	
STOP Voltage (UVP)			Setting range : 0.00 V to 120				
STOP TIME			ting range : OFF, 1 sec 9	,			
STOP CAP. AH			ing range : OFF, 0.1 AH to	,			
STOP CAP. WH		Settir	ng range : OFF, 0.1 WH to	WH / Resolution : 0.	I WH		
SEQ Load Mode (Remote Load Mode	Only)						
		CC / CP					
Setting STEP		2 to 16					
Timing Resolution	20 μs to 1000 μs / 2 ms to 65535 ms / 66 sec. to 999 sec. 10 μs / 1 ms / 1 sec.						
Dynamic Mode			10 µs / 11	ns / T sec.			
Timing Thigh & Tlow			010 mc to 0 000 mc / 00	00 mc / 000 0 mc / 0000 m	<u></u>		
Resolution	0.010 ms to 9.999 ms / 99.99 ms / 9999 ms 0.001 ms / 0.01 ms / 0.1 ms / 1 ms						
Accuracy	0.00 l ms / 0.0 l ms / 0.1 ms / 1 ms 1 μs / 10 μs / 100 μs / 1 ms + 50 ppm						
Slew Rate							
Siew Rate	0.640 A/μs	6.400 A/μs	0.800 A/µs	8.000 A/µs	0.960 A/μs to	0.1536 A/μs to 9.600 A/μs	
Resolution	0.00256 A/µs	0.0256 A/μs	0.0032 A/μs	0.032 A/µs	0.00384 A/µs	0.0384 A/µs	
Min. Rise Time	25 μs(typical)						
Accuracy	$\pm (5\% \text{ of Setting}) \pm 10 \mu\text{s}$						
Current Range	0 A to 16 A	16 A to 160 A	0 A to 20 A	20 A to 200 A	0 A to 24 A	42 A to 240 A	
Resolution	0.26 mA	2.56 mA	0.32 mA	3.2 mA	0.38 mA	3.84 mA	
Conf Key Parameter	•						
LDon Voltage			<u> </u>	60.0 V / Resolution : 1 V			
LDoFF Voltage	Setting range : 0.000 V to 249.0 V / Resolution : 0.02 V						
Average Times	0 to 64						
CV Res. Speed			1 to 4 (Fastest)			
Measurement	1					1	
Voltage Read Back Range (5 Digital)	0 V to 120 V	120 V to 1200 V	0 V to 120 V	120 V to 1200 V	0 V to 120 V	120 V to 1200 V	
Resolution	2.00 mV	20.0 mV	2.00 mV	20.0 mV	2.00 mV	20.0 mV	
Accuracy		2010 11.1	± 0.025 % of (R		2.00	2010 /111	
Current Read Back Range (5 Digital)	0 A to 16 A	16 A to 160 A	0 A to 20 A	20 A to 200 A	0 A to 24 A	24 A to 240 A	
Resolution	0.256 mA	2.56 mA	0.32 mA	3.2 mA	0.384 mA	3.84 mA	
Accuracy			± 0.05 % of (Re	ading + Range)			
Power Read Back Range (5 Digital)	4 kW 5 kW 6 kW			kW			
Resolution				1 W			
Accuracy ^{*4}			± 0.06 % of (Re	ading + Range)			
General	1			-			
Typical Short Resistance		imΩ	75 mΩ 200 A		62.505 mΩ		
Maximum Short Current	16	A			24	0 A	
Load ON Voltage			1 V to				
Load OFF Voltage				249 V			
Input Range & Power Dimension(H x W x D)			100 Vac to 240 Vac,47 Hz	to 63 Hz ; 550 VA (max.) mm x 745 mm			
Weight	22 1.~.	: 0.5 kg		mm x 745 mm ± 0.5 kg	27 E k~	± 0.5 kg	
Temperature ^{*8}	J 32 Kg ∃	- v.J NB	•	•	52.5 кg	- v.v ng	
	0 °C to 40 °C						

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 Board SHORT, OCCP and OCDP Test Note ^{*8} : Operating temperature range is 0 °C to 40 °C, All specifications apply for 25 °C±5 °C, Except as noted

EXTERNAL DIMENSIONS



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

Specifications subject to change without notice. PEL-5000G_BH1_E_202507_1000

Global Headquarters

GOOD WILL INSTRUMENT CO., LTD. No.7-1, Jhongsing Road, Tucheng Dist., New Taipei City 236, Taiwan T +886-2-2268-0389 F +886-2-2268-0639 E-mail: marketing@goodwill.com.tw

China Subsidiary

COOD WILL INSTRUMENT (SUZHOU) CO., LTD. No. 521, Zhujiang Road, Snd, Suzhou Jiangsu 215011 China T +86-512-6661-7177 F +86-512-6661-7277

Malaysia Subsidiary

GOOD WILL INSTRUMENT (SEA) SDN. BHD. No. 1-3-18, Elit Avenue, Jalan Mayang Pasir 3, 11950 Bayan Baru, Penang, Malaysia T +604-6111122 F +604-6115225

Europe Subsidiary

COOD WILL INSTRUMENT EURO B.V. De Run 5427A, 5504DG Veldhoven, THE NETHERLANDS T +31(0)40-2557790 F +31(0)40-2541194

U.S.A. Subsidiary

INSTEK AMERICA CORP. 5198 Brooks Street Montclair, CA 91763, U.S.A. T +1-909-399-3535 F +1-909-399-0819

Japan Subsidiary

TEXIO TECHNOLOGY CORPORATION.

7F Towa Fudosan Shin Yokohama Bldg., 2-18-13 Shin Yokohama, Kohoku-ku, Yokohama, Kanagawa, 222 0033 Japan

222-0033 Japan T +81-45-620-2305 F +81-45-534-7181 Korea Subsidiary

GOOD WILL INSTRUMENT KOREA CO., LTD.

Room No.503, Gyeonginro 775 (Mullae-Dong 3Ga, Ace Hightech-City B/D 1 Dong), Yeongduengpo-Gu, Seoul 150093, Korea T +82-2-3439-2205 F +82-2-3439-2207

1 +82-2-3439-2205 F +82-2-3439-22 India Subsidiary

GW INSTEK INDIA LLP.

2F, No. 20/1, Salarpuria Galleria Building, Bellary Road, Kashi Nagar, Byatarayanapura, Bangalore, Karnataka 560092 India T +91-80-4203-3235



Simply Reliable



