

Model	PEL-5004G-150-400		PEL-5005G-150-500		PEL-5006G-150-600	
Power ¹	0 ~ 4kW	0 ~ 6kW max. ¹	0 ~ 5kW	0 ~ 7.5kW max. ¹	0 ~ 6kW	0 ~ 9kW max. ¹
Current	0 ~ 400A	0 ~ 600A max. ¹	0 ~ 500A	0 ~ 750A max. ¹	0 ~ 600A	0 ~ 900A max. ¹
Voltage	0 ~ 150V		0 ~ 150V		0 ~ 150V	
Min. Operating Voltage	0.7V@400A		0.7V@500A		0.7V@600A	
Protections						
Over Power Protection(OPP)			105%			
Over Current Protection(OCP)			104%			
Over Voltage Protection(OVP)			105%			
Over Temp Protection(OTP)			90°C±5°C			
Constant Current Mode						
Range ²	0 ~ 40A	0 ~ 400A	0 ~ 50A	0 ~ 500A	0 ~ 60A	0 ~ 600A
Resolution	0.64mA	6.4mA	0.80mA	8.0mA	0.96mA	9.6mA
Accuracy ³	± 0.05% of (Setting + Range)					
Constant Resistance Mode						
Range	22.5kΩ ~ 0.375G	0.375G ~ 0.0018G	18kΩ ~ 0.3G	0.3G ~ 0.0015G	15kΩ ~ 0.25G	0.25G ~ 0.0012G
Resolution	44μS	6.25μS	56μS	5μS	67μS	4.167μS
Accuracy ³	± (0.1% (Vin / Setting) + 0.1% F.S.)	± (0.2% (Vin / Setting) + 0.5% F.S.) ²	± (0.1% (Vin / Setting) + 0.1% F.S.)	± (0.2% (Vin / Setting) + 0.5% F.S.) ²	± (0.1% (Vin / Setting) + 0.1% F.S.)	± (0.2% (Vin / Setting) + 0.5% F.S.) ²
Constant Voltage Mode						
Range	0 ~ 150V					
Resolution	2.5mV					
Accuracy ³	± 0.05% of (Setting + Range)					
Constant Power Mode						
Range	0 ~ 400W	400 ~ 4kW	0 ~ 500W	500 ~ 5kW	0 ~ 600W	600 ~ 6kW
Resolution	6.4mW	64mW	8mW	80mW	9.6mW	96mW
Accuracy ⁴	± 0.2% of (Setting + Range)					
Constant Voltage Mode + Current Limit Mode						
Range	150V	400A	150V	500A	150V	600A
Resolution	2.5mV	6.4mA	2.5mV	8mA	2.5mV	9.6mA
Accuracy ⁴	± 0.05% of (Setting + Range)					
Constant Voltage Mode + Power Limit Mode						
Range	150V	4kW	150V	5kW	150V	6kW
Resolution	2.5mV	64mW	2.5mV	80mW	2.5mV	96mW
Accuracy ⁴	± 0.05% of (Setting + Range)					
Turbo Mode⁵						
Short / OCP / OPP Test Function	OFF	ON	OFF	ON	OFF	ON
Max. Current	400A	600A	500A	750A	600A	900A
Max. Power	4000W	6000W	5000W	7500W	6000W	9000W
Test Accuracy ⁶	± 1.0% of (Reading + Range)					
Short Time	100 ~ 10000ms	100 ~ 2000ms	100 ~ 10000ms	100 ~ 2000ms	100 ~ 10000ms	100 ~ 2000ms
Setting, Accuracy	Continuous					
Short V Hi	Setting range: 0.00V ~ 150.00V / Resolution: 0.0025V					
Short V Lo	Setting range: 0.00V ~ 150.00V / Resolution: 0.0025V					
OCP Time (1step)	100ms	20ms	100ms	20ms	100ms	20ms
Setting, Accuracy	±5ms					
OCP ISTAR / ISTEP / ISTOP	Setting range: 0.00A ~ 400.00A / Resolution: 6.4mA	Setting range: 0.00A ~ 600.00A / Resolution: 9.6mA	Setting range: 0.00A ~ 500.00A / Resolution: 8.0mA	Setting range: 0.00A ~ 750.00A / Resolution: 12mA	Setting range: 0.00A ~ 600.00A / Resolution: 9.6mA	Setting range: 0.00A ~ 900.00A / Resolution: 14.4mA
OCP VTH	Setting range: 0.00V ~ 150.00V / Resolution: 0.0025V					
OPP Time (1step)	100ms	20ms	100ms	20ms	100ms	20ms
Setting, Accuracy	±5ms					
OPP PSTAR / PSTEP / PSTOP	Setting range: 0.00W ~ 4000.0W / Resolution: 64.0mW	Setting range: 0.00W ~ 6000.0W / Resolution: 96.0mW	Setting range: 0.00W ~ 5000.0W / Resolution: 80.0mW	Setting range: 0.00W ~ 7500.0W / Resolution: 120mW	Setting range: 0.00W ~ 6000.0W / Resolution: 96mW	Setting range: 0.00W ~ 9000.0W / Resolution: 144mW
OPP VTH	Setting range: 0.00V ~ 150.00V / Resolution: 0.0025V					
BMS Test Mode⁷						
Max. Current	400A	600A	500A	750A	600A	900A
Meas. Accuracy ⁸	±3.0% of (Reading + Range)					
Short test Time	0.05ms~10ms / Resolution: 0.01ms					
Meas. Accuracy	±0.02ms					
Setting Accuracy	±0.05ms					
Short ITH	Setting range: 0.19A ~ 200.00A / Resolution: 6.4mA	Setting range: 0.28A ~ 300.00A / Resolution: 9.6mA	Setting range: 0.24A ~ 250.00A / Resolution: 8.0mA	Setting range: 0.36A ~ 375.00A / Resolution: 12mA	Setting range: 0.28A ~ 300.00A / Resolution: 9.6mA	Setting range: 0.43A ~ 450.00A / Resolution: 14.4mA
OCP ISTAR	Setting range: 0.64A ~ 400.00A / Resolution: 6.4mA	Setting range: 0.96A ~ 600.00A / Resolution: 9.6mA	Setting range: 0.80A ~ 500.00A / Resolution: 8.0mA	Setting range: 1.20A ~ 750.00A / Resolution: 12mA	Setting range: 0.96A ~ 600.00A / Resolution: 9.6mA	Setting range: 1.44A ~ 900.00A / Resolution: 14.4mA
OCP ISTEP	0.05 ~ 10ms	0.05 ~ 10ms	0.05 ~ 10ms	0.05 ~ 10ms	0.05 ~ 10ms	0.05 ~ 10ms
Meas. Accuracy	±0.1ms / ±0.5ms	±0.5ms	±0.1ms / ±0.5ms	±0.5ms	±0.1ms / ±0.5ms	±0.5ms
OCP ISTOP	Setting range: 0.00A ~ 400.00A / Resolution: 6.4mA	Setting range: 0.00A ~ 600.00A / Resolution: 9.6mA	Setting range: 0.00A ~ 500.00A / Resolution: 8.0mA	Setting range: 0.00A ~ 750.00A / Resolution: 12mA	Setting range: 0.00A ~ 600.00A / Resolution: 9.6mA	Setting range: 0.00A ~ 900.00A / Resolution: 14.4mA
OCP ISTOP	Setting range: 0.64A ~ 400.00A / Resolution: 6.4mA	Setting range: 0.96A ~ 600.00A / Resolution: 9.6mA	Setting range: 0.80A ~ 500.00A / Resolution: 8.0mA	Setting range: 1.20A ~ 750.00A / Resolution: 12mA	Setting range: 0.96A ~ 600.00A / Resolution: 9.6mA	Setting range: 1.44A ~ 900.00A / Resolution: 14.4mA
OCP ITH	Setting range: 0.19A ~ 200.00A / Resolution: 6.4mA	Setting range: 0.29A ~ 300.00A / Resolution: 9.6mA	Setting range: 0.24A ~ 250.00A / Resolution: 8.0mA	Setting range: 0.37A ~ 375.00A / Resolution: 12mA	Setting range: 0.29A ~ 300.00A / Resolution: 9.6mA	Setting range: 0.44A ~ 450.00A / Resolution: 14.4mA
Surge Test Mode						
Surge Current	0 ~ 600A		0 ~ 750A		0 ~ 900A	
Normal Current	0 ~ 300A		0 ~ 375A		0 ~ 450A	
Surge Time	10 ~ 2000ms		10 ~ 2000ms		10 ~ 2000ms	
Surge Step	1 ~ 5		1 ~ 5		1 ~ 5	
Batt test Mode						
Mode CC	Setting range: 0.00A ~ 400.00A / Resolution: 6.4mA		Setting range: 0.00A ~ 500.00A / Resolution: 8.0mA		Setting range: 0.00A ~ 600.00A / Resolution: 9.6mA	
Mode CP	Setting range: 0.00W ~ 4000.0W / Resolution: 64.0mW		Setting range: 0.00W ~ 5000.0W / Resolution: 80.0mW		Setting range: 0.00W ~ 6000.0W / Resolution: 96mW	
STOP Voltage(UVP)	Setting range: 0.00V ~ 150.00V / Resolution: 0.0025V		Setting range: 0.00V ~ 150.00V / Resolution: 0.0025V		Setting range: 0.00V ~ 150.00V / Resolution: 0.0025V	
STOP TIME	Setting range: OFF 1 ~ 99999H / Resolution: 1s		Setting range: OFF 1 ~ 99999H / Resolution: 1s		Setting range: OFF 1 ~ 99999H / Resolution: 1s	
STOP CAP AH	Setting range: OFF 0.1 ~ 19999AH / Resolution: 0.1AH		Setting range: OFF 0.1 ~ 19999AH / Resolution: 0.1AH		Setting range: OFF 0.1 ~ 19999AH / Resolution: 0.1AH	
STOP CAP WH	Setting range: OFF 0.1 ~ 19999WH / Resolution: 0.1WH		Setting range: OFF 0.1 ~ 19999WH / Resolution: 0.1WH		Setting range: OFF 0.1 ~ 19999WH / Resolution: 0.1WH	
SEQ Load Mode (remote only)						
Load mode	CC / CP					
Setting STEP	2 ~ 16					
Timing	20 ~ 1000 μs / 2 ~ 65535ms / 66 ~ 999sec					
Resolution	10 μs / 1ms / 1sec					
Dynamic Mode						
Timing	0.010~9.999 / 99.99 / 999.9 / 9999ms					
High & Low	0.001 / 0.01 / 0.1 / 1ms					
Resolution	1 μs / 10 μs / 100 μs / 1ms + 50ppm					
Accuracy	± 0.025% of (Reading + Range)					
Slew Rate	0.025G~1.600A / μs	0.25G~16.000A / μs	0.032G~2.000A / μs	0.32G~20.000A / μs	0.0384~2.400A / μs	0.384~24.000A / μs
Resolution	0.0064A / μs	0.064A / μs	0.008A / μs	0.08A / μs	0.0096A / μs	0.096A / μs
Min. Rise Time	25 μs (typical)					
Accuracy	± (3% of Setting + 10 μs)					
Current						
Range	0 ~ 40A	40 ~ 400A	0 ~ 50A	50 ~ 500A	0 ~ 60A	60 ~ 600A
Resolution	0.64mA	6.4mA	0.8mA	8mA	0.96mA	9.6mA
Conf Key Parameter						
LDON Voltage	Setting range: 0.25V ~ 62.50V / Resolution: 0.25V					
LDoff Voltage	Setting range: 0.000V ~ 62.50V / Resolution: 0.0025V					
Average Time	0 ~ 64					
CV Res. Speed	1 ~ 4 (Fastest)					
Measurement						
Voltage Read Back Range (5 Digital)	0 ~ 15V	15 ~ 150V	0 ~ 15V	15 ~ 150V	0 ~ 15V	15 ~ 150V
Resolution	0.25mV	2.5mV	0.25mV	2.5mV	0.25mV	2.5mV
Accuracy	± 0.025% of (Reading + Range)					
Current Read Back Range (5 Digital)	0 ~ 40A	40 ~ 400A	0 ~ 50A	50 ~ 500A	0 ~ 60A	60 ~ 600A
Resolution	0.64mA	6.4mA	0.8mA	8mA	0.96mA	9.6mA
Accuracy	± 0.05% of (Reading + Range)					
Power Read Back Range (5 Digital)	4kW		5kW		6kW	
Resolution	0.01W					
Accuracy	± 0.06% of (Reading + Range)					
General						
Typical Short Resistance	1.8mΩ		1.5mΩ		1.2mΩ	
Maximum Short Current	400A		500A		600A	
Load ON Voltage	0.25 ~ 62.5V					
Load OFF Voltage	0 ~ 62.5V					
Power Consumption	550VA					
Dimension(H x W x D)	177mm x 440mm x 745mm					
Weight	28kg					
Temperature ⁹	0 ~ 40°C					
Safety & EMC	CE					

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 Surges, 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 OCPDP Test

Note ⁸ : Operating temperature range is 0~40 °C. All specifications apply for 25 °C±5°C. Except as noted

Note ⁹ : The specification is valid only for input voltage >1.5V and resistance settings: 0.0037Ω(PEL-5004G-150-400), 0.0030Ω(PEL-5005G-150-500), 0.0025Ω(PEL-5006G-150-600)

Model	PEL-5004G-600-280		PEL-5006G-600-350		PEL-5004G-600-420	
Power ¹⁾	0 - 4kW	0 - 6kW max. ¹⁾	0 - 5kW	0 - 7.5kW max. ¹⁾	0 - 6kW	0 - 9kW max. ¹⁾
Current	0 - 280A	0 - 420A max. ¹⁾	0 - 350A	0 - 525A max. ¹⁾	0 - 420A	0 - 630A max. ¹⁾
Voltage	0 - 600V		0 - 600V		0 - 600V	
Min. Operating Voltage	10V@280A		10V@350A		10V@420A	
Protections						
Over Power Protection(OPP)			105%			
Over Current Protection(OCP)			104%			
Over Voltage Protection(OVP)			105%			
Over Temp Protection(OTP)			90°C±5°C			
Constant Current Mode						
Range ²⁾	0 - 28A	0 - 280A	0 - 35A	0 - 350A	0 - 42A	0 - 420A
Resolution	0.448mA	4.48mA	0.56mA	5.6mA	0.672mA	6.72mA
Accuracy ³⁾	± 0.05% of (Setting + Range)					
Constant Resistance Mode						
Range	128610Ω - 2.1435Ω	2.1435Ω - 0.0357Ω	102888Ω - 1.7148Ω	1.7148Ω - 0.0285Ω	85740Ω - 1.4290Ω	1.4290Ω - 0.0238Ω
Resolution	8μS	35.73μS	10μS	28.584μS	12μS	23.82μS
Accuracy ⁴⁾	± 0.1% (Vin / Setting) ± 0.1% IF.S. ± 0.1% of (Setting + Range) ± 0.1% IF.S. ± 0.1% of (Setting + Range) ± 0.1% IF.S. ± 0.1% of (Setting + Range) ± 0.1% IF.S. ± 0.1% of (Setting + Range) ± 0.1% IF.S.					
Constant Voltage Mode						
Range	0 - 600V					
Resolution	10mV					
Accuracy ⁵⁾	± 0.05% of (Setting + Range)					
Constant Power Mode						
Range	0 - 400W	400 - 4kW	0 - 500W	500 - 5kW	0 - 600W	600 - 6kW
Resolution	6.4mW	64mW	8mW	80mW	9.6mW	96mW
Accuracy ⁶⁾	± 0.1% of (Setting + Range)					
Constant Voltage Mode + Current Limit Mode						
Range	600V	280A	600V	350A	600V	420A
Resolution	10mV	4.48mA	10mV	5.6mA	10mV	6.72mA
Accuracy ⁷⁾	± 0.05% of (Setting + Range)		± 1.0% of (Setting + Range)		± 0.05% of (Setting + Range)	
Constant Voltage Mode + Power Limit Mode						
Range	600V	4kW	600V	5kW	600V	6kW
Resolution	10mV	64mW	10mV	80mW	10mV	96mW
Accuracy ⁸⁾	± 0.05% of (Setting + Range)		± 1.0% of (Setting + Range)		± 0.05% of (Setting + Range)	
Turbo Mode⁹⁾						
Short / OCP / OPP Test Function	OFF	ON	OFF	ON	OFF	ON
Max. Current	280A	420A	350A	525A	420A	630A
Max. Power	4000W	6000W	5000W	7500W	6000W	9000W
Test Accuracy ¹⁰⁾	± 1.0% of (Reading + Range)					
Short Time	100 - 10000ms	100 - 2000ms	100 - 10000ms	100 - 2000ms	100 - 10000ms	100 - 2000ms
Setting Accuracy	Continuous		Continuous		Continuous	
Short V.Hi	Setting range: 0.00V - 600.00V / Resolution: 0.01V					
Short V.Lo	Setting range: 0.00V - 600.00V / Resolution: 0.01V					
OCP Time (Tstep)	100ms	20ms	100ms	20ms	100ms	20ms
Setting Accuracy	± 5ms					
OCP ISTAR / ISTEP / ISTOP	Setting range: 0.00A - 280.00A / Resolution: 4.48mA	Setting range: 0.00A - 420.00A / Resolution: 6.72mA	Setting range: 0.00A - 350.00A / Resolution: 5.6mA	Setting range: 0.00A - 525.00A / Resolution: 8.4mA	Setting range: 0.00A - 420.00A / Resolution: 6.72mA	Setting range: 0.00A - 630.00A / Resolution: 10.08mA
OCP V.Hi	Setting range: 0.00V - 600.00V / Resolution: 0.01V					
OPP Time (Tstep)	100ms	20ms	100ms	20ms	100ms	20ms
Setting Accuracy	± 5ms					
OPP PSTAR / PSTEP / PSTOP	Setting range: 0.00W - 4000.0W / Resolution: 64.0mW	Setting range: 0.00W - 6000.0W / Resolution: 96.0mW	Setting range: 0.00W - 5000.0W / Resolution: 80.0mW	Setting range: 0.00W - 7500.0W / Resolution: 120mW	Setting range: 0.00W - 6000.0W / Resolution: 96mW	Setting range: 0.00W - 9000.0W / Resolution: 144mW
OPP V.Hi	Setting range: 0.00V - 600.00V / Resolution: 0.01V					
BMS Test Mode¹¹⁾						
Max. Current	280A	420A	350A	525A	420A	630A
Meas. Accuracy ¹²⁾	± 3.0% of (Reading + Range)					
Short test Time	0.05ms - 10ms / Resolution: 0.01ms					
Meas. Accuracy	± 0.02ms					
Setting Accuracy	± 0.05ms					
Short I.Hi	Setting range: 0.13A - 140.00A / Resolution: 4.48mA	Setting range: 0.20A - 210.00A / Resolution: 6.72mA	Setting range: 0.16A - 175.00A / Resolution: 5.6mA	Setting range: 0.25A - 262.50A / Resolution: 8.4mA	Setting range: 0.20A - 210.00A / Resolution: 6.72mA	Setting range: 0.30A - 315.0A / Resolution: 10.08mA
OCP ISTAR	Setting range: 0.44A - 280.00A / Resolution: 4.48mA	Setting range: 0.67A - 420.00A / Resolution: 6.72mA	Setting range: 0.56A - 350.00A / Resolution: 5.6mA	Setting range: 0.84A - 525.00A / Resolution: 8.4mA	Setting range: 0.67A - 420.00A / Resolution: 6.72mA	Setting range: 1.00A - 630.00A / Resolution: 10.08mA
OCP ISTEP	0.05 - 10ms	0.05 - 10ms	0.05 - 10ms	0.05 - 10ms	0.05 - 10ms	0.05 - 10ms
Meas. Accuracy	± 0.1ms / ± 0.5ms	± 0.5ms	± 0.1ms / ± 0.5ms	± 0.5ms	± 0.1ms / ± 0.5ms	± 0.5ms
OCP ISTOP	Setting range: 0.00A - 280.00A / Resolution: 4.48mA	Setting range: 4.20A - 420.00A / Resolution: 6.72mA	Setting range: 0.00A - 350.00A / Resolution: 5.6mA	Setting range: 5.25A - 525.00A / Resolution: 8.4mA	Setting range: 0.00A - 420.00A / Resolution: 6.72mA	Setting range: 6.30A - 630.00A / Resolution: 10.08mA
OCP ISTOP	Setting range: 0.44A - 280.00A / Resolution: 4.48mA	Setting range: 0.67A - 420.00A / Resolution: 6.72mA	Setting range: 0.56A - 350.00A / Resolution: 5.6mA	Setting range: 0.84A - 525.00A / Resolution: 8.4mA	Setting range: 0.67A - 420.00A / Resolution: 6.72mA	Setting range: 1.00A - 630.00A / Resolution: 10.08mA
OCP ITH	Setting range: 0.13A - 140.00A / Resolution: 4.48mA	Setting range: 0.20A - 210.00A / Resolution: 6.72mA	Setting range: 0.16A - 175.00A / Resolution: 5.6mA	Setting range: 0.25A - 262.50A / Resolution: 8.4mA	Setting range: 0.20A - 210.00A / Resolution: 6.72mA	Setting range: 0.30A - 315.00A / Resolution: 10.08mA
Surge Test Mode						
Surge Current	0 - 420A		0 - 525A		0 - 630A	
Normal Current	0 - 210A		0 - 262.5A		0 - 315A	
Surge Time	10 - 2000ms		10 - 2000ms		10 - 2000ms	
Surge Slope	1 - 5		1 - 5		1 - 5	
Batt test Mode						
Mode.CC	Setting range: 0.00A - 280.00A / Resolution: 4.48mA		Setting range: 0.00A - 350.00A / Resolution: 5.6mA		Setting range: 0.00A - 420.00A / Resolution: 6.72mA	
Mode.CP	Setting range: 0.00W - 4000.0W / Resolution: 64.0mW		Setting range: 0.00W - 5000.0W / Resolution: 80.0mW		Setting range: 0.00W - 6000.0W / Resolution: 96mW	
STOP Voltage (UVF)			Setting range: 0.00V - 600.00V / Resolution: 0.01V			
STOP TIME	Setting range: OFF 1 - 99999s / Resolution: 1s					
STOP CAP.AH	Setting range: OFF 0.1 - 19999AH / Resolution: 0.1AH					
STOP CAP.WH	Setting range: OFF 0.1 - 19999WH / Resolution: 0.1WH					
SEQ Load Mode (remote only)						
Load Mode	CC / CP					
Setting STEP	2 - 16					
Timing	20 - 1000 μs / 2 - 65535ms / 66 - 999sec					
Resolution	10 μs / 1ms / 1sec					
Dynamic Mode						
Timing						
Thigh & Tlow	0.010 - 9.999 / 99.99 / 999.9 / 9999ms					
Resolution	0.001 / 0.01 / 0.1 / 1ms					
Accuracy	1 μs / 10 μs / 100 μs / 1ms = 50ppm					
Slew Rate	0.01792 - 1.120A / μs	0.1792 - 11.200A / μs	0.0224 - 1.400A / μs	0.2240 - 14.00A / μs	0.02688 - 1.680A / μs	0.2688 - 16.800A / μs
Resolution	0.00448A / μs	0.0448A / μs	0.0056A / μs	0.056A / μs	0.00672A / μs	0.0672A / μs
Min. Rise Time	25 (justypical)					
Accuracy	± (5% of Setting) ± 10 μs					
Current						
Range	0 - 28A	28 - 280A	0 - 35A	35 - 350A	0 - 42A	42 - 420A
Resolution	0.45mA	4.48mA	0.56mA	5.6mA	0.67mA	6.72mA
Conf Key Parameter						
L.Don Voltage	Setting range: 0.4V - 100.0V / Resolution: 0.4V					
L.DoFF Voltage	Setting range: 0.000V - 99.60V / Resolution: 0.01V					
Average Time	0 - 64					
CV Res. Speed	1 ~ 4 (Fastest)					
Measurement						
Voltage Read Back Range (S Digital)	0 - 60V	60 - 600V	0 - 60V	60 - 600V	0 - 60V	60 - 600V
Resolution	1.00mV	10.0mV	1.00mV	10.0mV	1.00mV	10.0mV
Accuracy	± 0.025% of (Reading + Range)					
Current Read Back Range (S Digital)	0 - 28A	28 - 280A	0 - 35A	35 - 350A	0 - 42A	42 - 420A
Resolution	0.448mA	4.48mA	0.56mA	5.6mA	0.672mA	6.72mA
Accuracy	± 0.05% of (Reading + Range)					
Power Read Back Range (S Digital)	4kW		5kW		6kW	
Resolution	0.01W					
Accuracy ¹³⁾	± 0.06% of (Reading + Range)					
General						
Typical Short Resistance	35.73mΩ		28.584mΩ		23.82mΩ	
Maximum Short Current	280A		350A		420A	
Load ON Voltage			0.4 - 100V			
Load OFF Voltage			0 - 99.6V			
Power Consumption			550VA			
Dimension (H x W x D)			177mm x 440mm x 745mm			
Weight			29kg			
Temperature ¹⁴⁾			0 - 40°C			
Safety & EMC			CE			

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% F.S

Note ⁷⁾: Bms Test function for Battery Management System Board SHORT, OCCP and OCPD Test

Note ⁸⁾: Operating temperature range is 0-40 °C. All specifications apply for 25°C±5°C, Except as noted

Model	PEL-5004G-1200-160		PEL-5005G-1200-200		PEL-5006G-1200-240	
Power ¹	0 ~ 4kW	0 ~ 6kW max. ¹	0 ~ 5kW	0 ~ 7.5kW max. ¹	0 ~ 6kW	0 ~ 9kW max. ¹
Current	0 ~ 160A	0 ~ 240A max. ¹	0 ~ 200A	0 ~ 300A max. ¹	0 ~ 240A	0 ~ 360A max. ¹
Voltage	0 ~ 1200V		0 ~ 1200V		0 ~ 1200V	
Min. Operating Voltage	15V@100A		15V@200A		15V@240A	
Protections						
Over Power Protection(OPP)			105%			
Over Current Protection(OCP)			104%			
Over Voltage Protection(OVP)			105%			
Over Temp Protection(OTP)			90°C±5°C			
Constant Current Mode						
Range ²	0 ~ 16A	0 ~ 160A	0 ~ 20A	0 ~ 200A	0 ~ 24A	0 ~ 240A
Resolution	0.256mA	2.56mA	0.32mA	3.2mA	0.384mA	3.84mA
Accuracy ³	± 0.05% of (Setting + Range)					
Constant Resistance Mode						
Range	450kΩ ~ 7.5Ω	7.5Ω ~ 0.0937Ω	360kΩ ~ 6Ω	6Ω ~ 0.075Ω	300kΩ ~ 5Ω	5Ω ~ 0.0625Ω
Resolution	2.2 μS	125μd	2.8 μS	100μd	3.3 μS	83.34μd
Accuracy	± 0.1% (Vin / Setting) ± 0.1% IF.S.		± 0.1% (Setting + Range) ± 0.1% IF.S.		± 0.1% (Setting + Range) ± 0.1% IF.S.	
Constant Voltage Mode						
Range	0 ~ 1200V					
Resolution	20mV					
Accuracy	± 0.05% of (Setting + Range)					
Constant Power Mode						
Range	0 ~ 400W	400 ~ 4kW	0 ~ 500W	500 ~ 5kW	0 ~ 600W	600 ~ 6kW
Resolution	6.4mW	64mW	8mW	80mW	9.6mW	96mW
Accuracy ⁴	± 0.2% of (Setting + Range)					
Constant Voltage Mode + Current Limit Mode						
Range	1200V	160A	1200V	200A	1200V	240A
Resolution	20mV	2.56mA	20mV	3.2mA	20mV	3.84mA
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 + Power Limit Mode						
Range	1200V	4kW	1200V	5kW	1200V	6kW
Resolution	20mV	64mW	20mV	80mW	20mV	96mW
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)
Turbo Mode⁵						
Short / OCP / OPP Test Function	OFF	ON	OFF	ON	OFF	ON
Max. Current	160A	240A	200A	300A	240A	360A
Max. Power	4000W	6000W	5000W	7500W	6000W	9000W
Test Accuracy ⁶	± 1.0% of (Reading + Range)					
Short Time	100 ~ 10000ms	100 ~ 200ms	100 ~ 10000ms	100 ~ 200ms	100 ~ 10000ms	100 ~ 200ms
Setting Accuracy	Continuous					
Short V.Hi	±5ms					
Short V.Lo	Setting range: 0.25V - 1200.0V / Resolution: 0.02V					
OCP Time(Tstep)	100ms	20ms	100ms	20ms	100ms	20ms
Setting Accuracy	±5ms					
OCP ISTAR / ISTEP / ISTOP	Setting range: 0.00A - 160.00A / Resolution: 2.56mA	Setting range: 0.00A - 240.00A / Resolution: 3.84mA	Setting range: 0.00A - 200.00A / Resolution: 3.2mA	Setting range: 0.00A - 300.00A / Resolution: 4.8mA	Setting range: 0.00A - 240.00A / Resolution: 3.84mA	Setting range: 0.00A - 360.00A / Resolution: 5.76mA
OCP VTH	Setting range: 0.00V - 1200.00V / Resolution: 0.02V					
OPP Time(Tstep)	100ms	20ms	100ms	20ms	100ms	20ms
Setting Accuracy	±5ms					
OPP PSTAR / PSTEP / PSTOP	Setting range: 0.00W - 4000.0W / Resolution: 64.0mW	Setting range: 0.00W - 6000.0W / Resolution: 96.0mW	Setting range: 0.00W - 5000.0W / Resolution: 80.0mW	Setting range: 0.00W - 7500.0W / Resolution: 120mW	Setting range: 0.00W - 6000.0W / Resolution: 96mW	Setting range: 0.00W - 9000.0W / Resolution: 144mW
OPP VTH	Setting range: 0.00V - 1200.00V / Resolution: 0.02V					
BMS Test Mode⁷						
Max. Current ⁸	160A	240A	200A	300A	240A	360A
Meas. Accuracy ⁹	±3.0% of (Reading + Range)					
Short test Time	0.05ms-10ms / Resolution: 0.01ms					
Meas. Accuracy	±0.02ms					
Setting Accuracy	±0.05ms					
Short ITH	Setting range: 0.07A - 80.00A / Resolution: 2.56mA	Setting range: 0.11A - 120.00A / Resolution: 3.84mA	Setting range: 0.09A - 100.00A / Resolution: 3.2mA	Setting range: 0.14A - 150.00A / Resolution: 4.8mA	Setting range: 0.11A - 120.00A / Resolution: 3.84mA	Setting range: 0.17A - 180.00A / Resolution: 5.76mA
OCP ISTAR	Setting range: 0.25A - 160.00A / Resolution: 2.56mA	Setting range: 0.38A - 240.00A / Resolution: 3.84mA	Setting range: 0.32A - 200.00A / Resolution: 3.2mA	Setting range: 0.48A - 300.00A / Resolution: 4.8mA	Setting range: 0.38A - 240.00A / Resolution: 3.84mA	Setting range: 0.57A - 360.00A / Resolution: 5.76mA
OCP ISTEP	0.05 ~ 10ms	0.05 ~ 10ms	0.05 ~ 10ms	0.05 ~ 10ms	0.05 ~ 10ms	0.05 ~ 10ms
Meas. Accuracy	±0.1ms ±0.5ms	±0.5ms	±0.1ms ±0.5ms	±0.5ms	±0.1ms ±0.5ms	±0.5ms
OCP ISTOP	Setting range: 0.00A - 160.00A / Resolution: 2.56mA	Setting range: 2.40A - 240.00A / Resolution: 3.84mA	Setting range: 0.00A - 200.00A / Resolution: 3.2mA	Setting range: 3.00A - 300.00A / Resolution: 4.8mA	Setting range: 0.00A - 240.00A / Resolution: 3.84mA	Setting range: 3.60A - 360.00A / Resolution: 5.76mA
OCP ISTOP	Setting range: 0.25A - 160.00A / Resolution: 2.56mA	Setting range: 0.38A - 240.00A / Resolution: 3.84mA	Setting range: 0.32A - 200.00A / Resolution: 3.2mA	Setting range: 0.48A - 300.00A / Resolution: 4.8mA	Setting range: 0.38A - 240.00A / Resolution: 3.84mA	Setting range: 0.57A - 360.00A / Resolution: 5.76mA
OCP ITH	Setting range: 0.07A - 80.00A / Resolution: 2.56mA	Setting range: 0.11A - 120.00A / Resolution: 3.84mA	Setting range: 0.09A - 100.00A / Resolution: 3.2mA	Setting range: 0.14A - 150.00A / Resolution: 4.8mA	Setting range: 0.11A - 120.00A / Resolution: 3.84mA	Setting range: 0.17A - 180.00A / Resolution: 5.76mA
Surge Test Mode						
Surge Current	0 ~ 240A		0 ~ 300A		0 ~ 360A	
Normal Current	0 ~ 120A		0 ~ 150A		0 ~ 180A	
Surge Time	10 ~ 2000ms		10 ~ 2000ms		10 ~ 2000ms	
Surge Slope	1 ~ 5		1 ~ 5		1 ~ 5	
Bat test Mode						
Mode CC	Setting range: 0.00A - 160.00A / Resolution: 2.56mA		Setting range: 0.00A - 200.00A / Resolution: 3.2mA		Setting range: 0.00A - 240.00A / Resolution: 3.84mA	
Mode CP	Setting range: 0.00W - 4000.0W / Resolution: 64.0mW		Setting range: 0.00W - 5000.0W / Resolution: 80.0mW		Setting range: 0.00W - 6000.0W / Resolution: 96mW	
STOP Voltage (UVP)	Setting range: 0.00V - 1200.00V / Resolution: 0.02V					
STOP TIME	Setting range: OFF 1 - 999999s / Resolution: 1s					
STOP CAP.AH	Setting range: OFF 0.1 - 199999AH / Resolution: 0.1AH					
STOP CAP.WH	Setting range: OFF 0.1 - 199999WH / Resolution: 0.1WH					
SEQ Load Mode (remote only)						
Load Mode	CC / CP					
Setting STEP	2 ~ 16					
Timing	20 ~ 1000 μs / 2 ~ 65535ms / 66 ~ 999sec					
Resolution	10 μs / 1ms / 1sec					
Dynamic Mode						
Timing						
Thigh & Tlow	0.010~9.999 / 99.99 / 999.9 / 9999ms					
Resolution	0.001 / 0.01 / 0.1 / 1ms					
Accuracy	1 μs / 10 μs / 100 μs / 1ms ± 50ppm					
Slew Rate	0.01024 ~ 0.640A / μs	0.1024 ~ 6.400A / μs	0.0128 ~ 0.800A / μs	0.1280 ~ 8.000A / μs	0.01536 ~ 0.960A / μs	0.1536 ~ 9.600A / μs
Resolution	0.00256A / μs	0.0256A / μs	0.0032A / μs	0.032A / μs	0.00384A / μs	0.0384A / μs
Min. Rise Time	25 μs (typical)					
Accuracy	±(5% of Setting) ±10 μs					
Current						
Range	0 ~ 16A	16 ~ 160A	0 ~ 20A	20 ~ 200A	0 ~ 24A	24 ~ 240A
Resolution	0.26mA	2.56mA	0.32mA	3.2mA	0.38mA	3.84mA
Conf Key Parameter						
LDON Voltage	Setting range: 1V - 250.0V / Resolution: 1V					
LDOFF Voltage	Setting range: 0.000V - 249.0V / Resolution: 0.02V					
Average Time	0 ~ 64					
CV Res. Speed	1 ~ 4 (Fastest)					
Measurement						
Voltage Read Back Range (5 Digital)	0 ~ 120V	120 ~ 1200V	0 ~ 120V	120 ~ 1200V	0 ~ 120V	120 ~ 1200V
Resolution	2.00mV	20.0mV	2.00mV	20.0mV	2.00mV	20.0mV
Accuracy	± 0.025% of (Reading + Range)					
Current Read Back Range (5 Digital)	0 ~ 16A	16 ~ 160A	0 ~ 20A	20 ~ 200A	0 ~ 24A	24 ~ 240A
Resolution	0.256mA	2.56mA	0.32mA	3.2mA	0.384mA	3.84mA
Accuracy	± 0.05% of (Reading + Range)					
Power Read Back Range (5 Digital)	4kW		5kW		6kW	
Resolution	0.01W					
Accuracy ⁴	± 0.06% of (Reading + Range)					
General						
Typical Short Resistance	93.75mΩ		75mΩ		62.505mΩ	
Maximum Short Current	160A		200A		240A	
Load ON Voltage	1 ~ 250V					
Load OFF Voltage	0 ~ 249V					
Power Consumption	550VA					
Dimension(H x W x D)	177mm x 440mm x 745mm					
Weight	25kg					
Temperature ¹⁰	0 ~ 40°C					
Safety & EMC	CE					

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 OCCDP Test

Note ⁸: Operating temperature range is 0~40 °C, All specifications apply for 25 °C±5°C, Except as noted