

Model	PEL-5004G-150-400		PEL-5005G-150-500		PEL-5006G-150-600	
Power ⁷¹	0 - 4kW	0 - 6kW max. ⁷²	0 - 5kW	0 - 7.5kW max. ⁷²	0 - 6kW	0 - 9kW max. ⁷²
Current	0 - 400A	0 - 600A max. ⁷²	0 - 500A	0 - 750A max. ⁷²	0 - 600A	0 - 900A max. ⁷²
Voltage	0 - 150V	0 - 150V	0 - 150V	0 - 150V	0 - 150V	0 - 150V
Min. Operating Voltage	0.7V@400A	0.7V@400A	0.7V@500A	0.7V@500A	0.7V@600A	0.7V@600A
Protections						
Over Power Protection(OPP)	105%		105%		105%	
Over Current Protection(OCP)	104%		104%		104%	
Over Voltage Protection(OVP)	105%		105%		105%	
Over Temp Protection(OTP)	90°C±5°C		90°C±5°C		90°C±5°C	
Constant Current Mode						
Range ⁷³	0 - 40A	0 - 400A	0 - 50A	0 - 500A	0 - 60A	0 - 600A
Resolution	0.64mA	6.4mA	0.8mA	8.0mA	0.96mA	9.6mA
Accuracy ⁷⁴	± 0.05% of (Setting + Range)					
Constant Resistance Mode						
Range	22.5Ω - 0.375Ω	0.375Ω - 0.0018Ω	18Ω - 0.3Ω	0.3Ω - 0.0015Ω	15Ω - 0.25Ω	0.25Ω - 0.0012Ω
Resolution	44mΩ	6.25μΩ	56mΩ	5μΩ	6.7mΩ	4.16μΩ
Accuracy ⁷⁴	± 0.1% of (Setting + Range) ± 0.1% F.S.					
Constant Voltage Mode						
Range	0 - 150V					
Resolution	2.5mV					
Accuracy ⁷⁴	± 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 ⁷⁴	± 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 ⁷⁴	± 0.05% of (Setting + Range)		± 1.0% of (Setting + Range)		± 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 ⁷⁴	± 0.05% of (Setting + Range)		± 0.05% of (Setting + Range)		± 0.05% of (Setting + Range)	
Turbo Mode⁷⁵						
Short / OCP / OPP Test Function	OFF	ON	OFF	ON	OFF	ON
Short / OCP / OPP Test Function						
Max. Current ⁷⁶	400A	600A	500A	750A	600A	900A
Max. Power	4000W	6000W	5000W	7500W	6000W	9000W
Test Accuracy ⁷⁶	± 1.0% of (Reading + Range)					
Short Time	100 - 1000ms	100 - 2000ms	100 - 1000ms	100 - 2000ms	100 - 1000ms	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					
OCF Time (T _{set})	100ms	20ms	100ms	20ms	100ms	20ms
Setting Accuracy ⁷⁴	± 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 (T _{set})	100ms	20ms	100ms	20ms	100ms	20ms
Setting Accuracy ⁷⁴	± 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 Mode⁷⁷						
Max. Current ⁷⁸	400A	600A	500A	750A	600A	900A
Meas. Accuracy ⁷⁸	± 3.0% of (Reading + Range)					
Short test Time	0.05ms - 10ms / Resolution: 0.01ms					
Meas. Accuracy	± 0.2ms					
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 TSTEP	0.05 - 10ms	0.05 - 10ms	0.05 - 10ms	0.05 - 10ms	0.05 - 10ms	0.05 - 10ms
Meas. Accuracy	± 0.1ms ± 0.5ms					
OCP ISTEP	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: 0.28A - 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
Surge Test Mode						
Surge Current	0 - 600A	0 - 600A	0 - 500A	0 - 750A	0 - 600A	0 - 900A
Normal Current	0 - 300A	0 - 300A	0 - 300A	0 - 375A	0 - 300A	0 - 450A
Surge Time	10 - 2000ms	10 - 2000ms	10 - 2000ms	10 - 2000ms	10 - 2000ms	10 - 2000ms
Surge Slope	1 - 5	1 - 5	1 - 5	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 - 99999s / Resolution: 1s		Setting range: OFF - 99999s / Resolution: 1s		Setting range: OFF - 99999s / Resolution: 1s	
STOP CAP-AH	Setting range: 0.01Ah - 19999Ah / Resolution: 0.1Ah		Setting range: 0.01Ah - 19999Ah / Resolution: 0.1Ah		Setting range: 0.01Ah - 19999Ah / Resolution: 0.1Ah	
STOP CAP-WH	Setting range: 0.01Wh - 19999Wh / Resolution: 0.1Wh		Setting range: 0.01Wh - 19999Wh / Resolution: 0.1Wh		Setting range: 0.01Wh - 19999Wh / Resolution: 0.1Wh	
SEQ Load Mode (remote only)						
Load mode	CC / CP					
Setting STEP	2 - 16					
Timing	20 - 1000 μs / 2 - 65535ms / 66 - 99999s					
Resolution	10 μs / 1ms / 1sec					
Dynamic Mode						
Timing	0.010 - 9.999 / 99.99 / 999.9 / 9999ms					
Thick & Thin	0.001 / 0.01 / 0.1 / 1ms					
Resolution	1 μs / 10 μs / 100 μs / 1ms / 50ppm					
Accuracy	± 0.025% - 1.600A / μs					
Slow Rate	0.0064A / μs					
Resolution	0.008A / μs					
Min. Rise Time	25 μs (typical)					
Accuracy	± 5% of Setting ± 10 μs					
Current	0 - 40A					
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 - 62.250V / Resolution: 0.0025V					
Average Time	0 - 64					
CV Res. Speed	1 - 4 (Fastest)					
Measurement						
Voltage Read Back Range (5 Digits)	0 - 15V	15 - 150V	0 - 15V	15 - 150V	0 - 15V	15 - 150V
Resolution	0.75mV	7.5mV	0.75mV	7.5mV	0.75mV	7.5mV
Accuracy	± 0.025% of (Reading + Range)					
Current Read Back Range (5 Digits)	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 Digits)	4kW	4kW	5kW	5kW	6kW	6kW
Resolution	0.01W	0.01W	0.01W	0.01W	0.01W	0.01W
Accuracy ⁷⁴	± 0.06% of (Reading + Range)					
General						
Typical Short Resistance	1.8mΩ	1.8mΩ	1.5mΩ	1.5mΩ	1.2mΩ	1.2mΩ
Maximum Short Current	400A	400A	500A	500A	600A	600A
Load ON Voltage	0.25 - 62.5V					
Load OFF Voltage	0 - 62.5V					
Power Consumption	550VA					
Dimensions(H x W x D)	177mm x 440mm x 745mm					
Weight	28kg					
Temperature ⁷⁹	0 - 40°C					
Safety & EMC	CE					

Note⁷¹: The power rating specifications at ambient temperature = 25 °C
Note⁷²: The range is automatically or forcing to range II only in CC mode
Note⁷³: If the operating current is below range 0.1%, the accuracy specification is 0.1% F.S.
Note⁷⁴: Power range = Range x Inrange
Note⁷⁵: Turbo mode for up to 1.5X Current rating & Power rating support Surge, Bms, Short /OCP /OPP test function
Note⁷⁶: The best accuracy of OCP /OPP test is Istep /Pstep=1%FS
Note⁷⁷: Bms Test function for Battery Management System Board SHORT, OCCP and OCPD Test
Note⁷⁸: Operating temperature range is 0-40 °C, All specifications apply for 25 °C±5°C, Except as noted

Model	PEL-5004G-600-280		PEL-5006G-600-350		PEL-5004G-600-420	
Power ¹⁾	0 - 4kW	0 - 6kW max. ²⁾	0 - 5kW	0 - 7.5kW max. ²⁾	0 - 6kW	0 - 9kW max. ²⁾
Current	0 - 280A	0 - 420A max. ³⁾	0 - 350A	0 - 525A max. ³⁾	0 - 420A	0 - 630A max. ³⁾
Voltage	0 - 600V	0 - 600V	0 - 600V	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 ⁴⁾	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 ⁵⁾	± 0.05% of (Setting + Range)					
Constant Resistance Mode						
Range	128610Ω - 2.1435Ω	2.1435Ω - 0.0357Ω	10288Ω - 1.7148Ω	1.7148Ω - 0.028Ω	85740Ω - 1.4290Ω	1.4290Ω - 0.0238Ω
Resolution	8 μS	35.73μΩ	10 μS	28.584μΩ	12 μS	23.82μΩ
Accuracy ⁵⁾	± 0.1% of (Setting + Range) ± 0.1% F.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 ⁵⁾	± 0.2% 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 ⁵⁾	± 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 ⁵⁾	± 0.05% of (Setting + Range)		± 0.05% of (Setting + Range)		± 0.05% of (Setting + Range)	
Turbo Mode⁶⁾						
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 ⁷⁾	± 1.0% of (Reading + Range)					
Short Time	100 - 1000ms	100 - 2000ms	100 - 1000ms	100 - 2000ms	100 - 1000ms	100 - 2000ms
Setting Accuracy	Continuous					
Short V.Hi	±5ms					
Short V.Lo	Setting range: 0.00V - 600.00V / Resolution: 0.01V Setting range: 0.00V - 600.00V / Resolution: 0.01V					
OCP Time (Istap)	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 VTH	Setting range: 0.00V - 600.00V / Resolution: 0.01V					
OPP Time (Istap)	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 - 600.00V / Resolution: 0.01V					
BMS Test Mode⁸⁾						
Max. Current	280A	420A	350A	525A	420A	630A
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: 0.13A - 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 - 315.0 A / Resolution: 10.08mA
OCP ISTAR	Setting range: 0.44A - 280.00A / Resolution: 4.48mA	Setting range: 0.56A - 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 TSTEP	0.05 - 10ms	0.05 - 10ms	0.05 - 10ms	0.05 - 10ms	0.05 - 10ms	0.05 - 10ms
Meas. Accuracy	±0.1ms / ±0.5ms					
OCP ISTEP	Setting range: 0.00A - 280.00A / Resolution: 4.48mA	Setting range: 0.20A - 420.00A / Resolution: 6.72mA	Setting range: 0.00A - 350.00A / Resolution: 5.6mA	Setting range: 0.25A - 525.00A / Resolution: 8.4mA	Setting range: 0.00A - 420.00A / Resolution: 6.72mA	Setting range: 0.30A - 630.00A / Resolution: 10.08mA
OCP ISTOP	Setting range: 0.44A - 280.00A / Resolution: 4.48mA	Setting range: 0.56A - 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 - 430A		0 - 535A		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 (VVP)	Setting range: 0.00V - 600.00V / Resolution: 0.01V		Setting range: 0.00V - 600.00V / Resolution: 0.01V		Setting range: 0.00V - 600.00V / Resolution: 0.01V	
STOP TIME	Setting range: OFF / 1 - 99999s / Resolution: 1s					
STOP CAP.AH	Setting range: 0.01 - 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 - 9999s					
Resolution	10 μs / 1ms / 1s					
Dynamic Mode						
Timing	0.010-9.999 / 99.99 / 999.9 / 9999ms					
Thick & Thin	0.001 / 0.01 / 0.1 / 1ms					
Resolution	1 μs / 10 μs / 100 μs / 1ms + 50ppm					
Accuracy	± 5% of Setting ± 10 μs					
Slow 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	0.0672A / μs	0.672A / μs
Min. Rise Time	25 μs (typical)					
Accuracy	± 5% of Setting ± 10 μs					
Current	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						
LDan Voltage	Setting range: 0.4V - 100.0V / Resolution: 0.4V					
LDaF 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 (5 Digits)	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 (5 Digits)	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 (5 Digits)	4kW		5kW		6kW	
Resolution	0.01W		0.01W		0.01W	
Accuracy	± 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	550W					
Dimension(H x W x D)	177mm x 440mm x 745mm					
Weight	29kg					
Temperature	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 = Voltage x Inrange
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=1%FS
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 ²⁾	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 ³⁾	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 ⁴⁾	± 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 ⁴⁾	± 0.1% (Vin / Setting) ± 0.1% IF.S					
Constant Voltage Mode						
Range	0-1200V					
Resolution	20mV					
Accuracy ⁴⁾	± 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)	
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)	
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 ~ 2000ms	100 ~ 10000ms	100 ~ 2000ms	100 ~ 10000ms	100 ~ 2000ms
Setting Accuracy	Continuous		Continuous		Continuous	
Short V.Hi	Setting range: 0.25V - 1200.0V / Resolution: 0.02V					
Short V.Lo	Setting range: 0.000V - 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 V.Hi	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 V.Hi	Setting range: 0.00V - 1200.00V / Resolution: 0.02V					
BMS Test Mode⁷⁾						
Max. Current	160A	240A	200A	300A	240A	360A
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 I.Hi	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 I.Hi	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	
Batt 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		Setting range: 0.00V - 1200.00V / Resolution: 0.02V		Setting range: 0.00V - 1200.00V / Resolution: 0.02V	
STOP TIME	Setting range: OFF 1 - 99999s / Resolution: 1s		Setting range: OFF 1 - 99999s / Resolution: 1s		Setting range: OFF 1 - 99999s / 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 (remode 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 ~ 8.000A / 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	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						
L.Don Voltage	Setting range: 1V - 250.0V / Resolution: 1V					
L.DoFF 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 (S 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 (S 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 (S Digital)	4kW		5kW		6kW	
Resolution			0.01W			
Accuracy	± 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		1 ~ 250V		1 ~ 250V	
Load OFF Voltage	0 ~ 249V		0 ~ 249V		0 ~ 249V	
Power Consumption	550VA		550VA		550VA	
Dimension(H x W x D)	177mm x 440mm x 745mm		177mm x 440mm x 745mm		177mm x 440mm x 745mm	
Weight	25kg		25kg		25kg	
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 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 OCCPD Test

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