

Programmable D.C. Electronic Load



PEL-3111(H)



PEL-3041(H)/3021(H)



FEATURES

- * Operating Voltage (DC) : 0~150V(PEL-3000)/ 0~800V(PEL-3000H)
- * Operating Mode : C.C/C.V/C.R/C.P/C.C+C.V/ C.R+C.V/C.P+C.V
- * Parallel Connection of Inputs for Higher Capacity (Max : 9,450W)
- * Support of High Slew Rate : Max 16A/ μ s (PEL-3000)/0.84A/ μ s(PEL-3000H)
- * Run Program Function (Go/NoGo Test)
- * Sequence Function for High Efficient Load Simulations
- * Dynamic (Switching) Function : 0.0166Hz~20kHz
- * Soft Start Function : Off/On (1~200ms, Res. 1ms)
- * Adjustable OCP/OVP/OPP/UVP Setting
- * Short Circuit Function
- * Timer Function : Elapsed Time of Load on
- * Cut Off Time (Auto Load Off Timer) : 1s to 999h 59min 59s or Off
- * External Channel Control/Monitoring Via Analog Control Connector
- * Setup Memories : 100 sets
- * 3.5 Inch TFT LCD Display
- * Multi Interface : USB 2.0 Device/Host, RS-232, GPIB (Optional)

Rear Panel



The PEL-3000 Series, a single-channel, programmable D.C. electronic load with 0.01mA current resolution and 16A/ μ s current Slew Rate, is very ideal for testing server power supply and SPS(Switching Power Supply) for commercial and industrial computers. For a heavy-duty device like cloud ecosystem running 24-hour nonstop operations, a stable and high-power power supply, ranging from 350W to 1500W, is required to maintain the normal operation of server, Hub, and the equipment of data storage and internet communications. Owing to the increasing demand of data transmission and large scale data storage of telecommunications systems, the infrastructure of internet communications is in the pace of rapid expansion. This has greatly boosted the market demand of telecommunications equipment powered by power supply of 2000W and above. The flexible power combination of PEL-3000 Series meets the test requirements of present high-power power supply. The PEL-3000H Series programmable DC Electronic load, which not only inherited functions and features from the PEL-3000 Series but providing three current ranges for all PEL-3000H Series and adding voltage monitor BNC terminals on the front panel. The PEL-3000H Series, a single-channel, programmable D.C. electronic load with 800V and 0.84A/ μ s current Slew Rate, is ideal for the test of the high voltage devices such as the EV & HEV in-vehicle chargers, DC/DC converters or high-voltage batteries. With respect to battery testing applications such as rechargeable battery for electrical tools, battery module and automobile battery, PEL-3000(H) Series has three stand-alone models to offer including 175W, 350W, 1050W and Booster. By connecting Booster 2100W units with master units, the maximum load capacity of the whole system can reach 9,450W. Hence, the PEL-3000(H) Series fulfills various power testing requirements including medium to low power or high-power power supply.

The PEL-3000(H) Series has seven operating modes and three operating functions. Among the seven operating modes, four of them are basic operating modes, including constant current, constant voltage, constant resistance, and constant power, and the other three are advanced operating modes including constant current + constant voltage, constant resistance + constant voltage, and constant power + constant voltage. Users must first select operating mode and then operating function based upon the test requirements. Static, Dynamic and Sequence operating functions can be applied to different testing conditions including a fixed load level, switching between two levels or switching among more than two levels. Sequence function is divided into Fast Sequence and Normal Sequence according to the test time of each step. Both Dynamic and Sequence are to assist users to simulate the genuine load change. For instance, PEL-3000(H) Series can simulate HEV current consumption to make sure that automobile battery can supply HEV with sufficient power need on the road. By so doing, manufacturers can elevate product quality and reliability.

The Soft Start function of the PEL-3000(H) Series can set current rise time for the moment PEL-3000(H) Series is turned on to reduce the abnormal situation of the voltage drop of power supply under test. The adjustable Under Voltage Protection(UVP), GO/NO GO voltage input monitoring function, current monitoring function and Timer Function to control load activation time can be jointly applied to the characteristic tests of battery bleeding to avoid battery damage during bleeding operation. Based upon the functionalities described above, the PEL-3000(H) Series can test a vast variety of power supply ranging from the fundamental static sink current to complex dynamic load simulations so as to enhance product quality and reliability.

The single unit D.C Electronic Load of PEL-3000(H) Series

The PEL-3000(H) Series is a high speed, single channel and programmable D.C. electronic load and its power, functionality, parallel combination and size are listed on the following chart :

MODEL	PEL-3021(H)	PEL-3041(H)	PEL-3111(H)	PEL-3211(H)
Power	175W	350W	1,050W	2,100W Booster
Function	Full-function Single Unit	Full-function Single Unit	Full-function Single Unit	No control panel, can not be operated alone
Parallel Combination	Parallel with same model, 5 units the maximum	Parallel with same model, 5 units the maximum	Parallel with same model, 5 units the maximum Parallel with the maximum of four PEL-3211(H)s	Parallel with PEL-3111(H)
Size	Half Rack	Half Rack	Full Rack	Full Rack

Note:

- *1, Full scale of H range
- *2, Vin: input terminal voltage of electronic load
- *3, M range applies to the full scale of H range
- *4, Siemens[S] = Input current[A]/Input voltage[V] = 1/resistance[Ω]
- *5, Converted value at the input current. It is not applied for the condition of the parallel operation.
- *6, set = Vin/Rset
- *7, At the sensing point during remote sensing under the operating range of the input voltage. It is also applied for the condition of the parallel operation.
- *8, It is not applied for the condition of the parallel operation.
- *9, Time to reach from 10 % to 90 % when the current is varied from 2 % to 100 % (20 % to 100 % in M range) of the rated current.

SPECIFICATIONS

Model	PEL-3021			PEL-3041			PEL-3111			PEL-3211		
Voltage	0V~150V			0V~150V			0V~150V			0V~150V		
Current	35A			70A			210A			420A		
Power	175W			350W			1050W			2100W		
Input Resistance	500 kΩ			500 kΩ			500 kΩ			N/A		
Min. Operating Voltage(DC)(Typ.)	0.75V@17.5A 1.5V@35A			0.75V@35A 1.5V@70A			0.75V@105A 1.5V@210A			0.75V@210A 1.5V@420A		
CONSTANT CURRENT MODE												
Operating Range	H, M, L	0~35A	0~3.5A	0~0.35A	0~70A	0~7A	0~0.7A	0~210A	0~21A	0~2.1A	420A	
Accuracy of Setting	H, M, L	$\pm(0.2\% \text{ of set} + 0.1\% \text{ of f.s.}^{*1}) + V_{in}^{*2}/500 \text{ k}\Omega$									$\pm(1.2\% \text{ of set} + 1.1\% \text{ of f.s.})$	
Accuracy of Setting(Parallel)	H, M, L	$\pm(1.2\% \text{ of set} + 1.1\% \text{ of f.s.}^{*3})$									$\pm(1.2\% \text{ of set} + 1.1\% \text{ of f.s.})$	
Resolution	H, M, L	1mA	0.1mA	0.01mA	2mA	0.2mA	0.02mA	10mA	1mA	0.1mA	N/A	
CR MODE												
Operating Range	Range	H	23.3336S~400μS (42.857mΩ~2.5kΩ)			46.6672S~800μS (21.428mΩ~1.25kΩ)			140.0016S~2.4mS (7.1427mΩ~416.6667Ω)			28.0002s~484.8μs (35.7135mΩ~2.08334Ω)
		M	2.33336S~40μS (428.566mΩ~25kΩ)			4.6667S~80μS (214.28mΩ~12.5kΩ)			14.0001S~242.4μS (71.427mΩ~4.16667kΩ)			
		L	0.233336S~4μS (4.28566Ω~250kΩ)			0.46667S~8μS (2.1428Ω~125kΩ)			1.40001S~24.24μS (714.27mΩ~41.6667kΩ)			
Accuracy of Setting	H, M, L	$\pm(0.5\% \text{ of set}^{*4} + 0.5\% \text{ of f.s.}^{*1}) + V_{in}^{*2}/500 \text{ k}\Omega$									$\pm(1.2\% \text{ of set} + 1.1\% \text{ of f.s.})$	
Parallel		$\pm(1.2\% \text{ of set} + 1.1\% \text{ of f.s.}^{*3})$										
Resolution	H, M, L	400μS	40μS	4μS	800μS	80μS	8μS	2.4mS	240μS	24μS	N/A	
CONSTANT VOLTAGE MODE												
Operating Range	Range	H	1.5V~150V									1.5V~150V
		L	1.5V~15V									1.5V~15V
Accuracy of Setting	H, L	$\pm(0.1\% \text{ of set} + 0.1\% \text{ of f.s.})$									N/A	
Resolution	H, L	10mV/1mV									N/A	
CONSTANT POWER MODE												
Operating Range	Range	H	17.5W~175W			35W~350W			105W~1050W			210W~2100W
		M	1.75W~17.5W			3.5W~35W			10.5W~105W			21W~210W
		L	0.175W~1.75W			0.35W~3.5W			1.05W~10.5W			2.1W~21W
Accuracy of Setting	H, M, L	$\pm(0.6\% \text{ of set}^{*5} + 1.4\% \text{ of f.s.}^{*3})$									N/A	
Resolution	H, M, L	10mW	1mW	0.1mW	10mW	1mW	0.1mW	100mW	10mW	1mW	N/A	
PARALLEL Mode												
Capacity		875W			1750W			5250W			PEL-3111 with 4 booster units : Max 9.45kW	
SLEW RATE												
Operation Mode		CC, CR			CC, CR			CC, CR			N/A	
Setting Range (CC mode)	Range	H	2.5mA/μs~2.5A/μs			5mA/μs~5A/μs			16mA/μs~16A/μs			16mA/μs~16A/μs
		M	250μA/μs~250mA/μs			500μA/μs~500mA/μs			1.6mA/μs~1.6A/μs			1.6mA/μs~1.6A/μs
		L	25μA/μs~25mA/μs			50μA/μs~50mA/μs			160μA/μs~160mA/μs			N/A
Setting Range (CR Mode)	Range	H	250μA/μs~250mA/μs			500μA/μs~500mA/μs			1.6mA/μs~1.6A/μs			1.6mA/μs~1.6A/μs
		M	25μA/μs~25mA/μs			50μA/μs~50mA/μs			160μA/μs~160mA/μs			160μA/μs~160mA/μs
		L	2.5μA/μs~2.5mA/μs			5μA/μs~5mA/μs			16μA/μs~16mA/μs			N/A
Accuracy of Setting	H, M, L	$\pm(10\% \text{ of set}^{*6} + 5\mu\text{s})$									N/A	
Resolution		1mA(250mA~2.5A/μs) 100μA(25mA~250mA/μs) 10μA(2.5mA~25mA/μs) 1μA(250μA~2.5mA/μs) 100nA(25μA~250μA/μs) 10nA(2.5μA~25μA/μs)			2mA(500mA~5A/μs) 200μA(50mA~500mA/μs) 20μA(5mA~25mA/μs) 2μA(500μA~5mA/μs) 200nA(50μA~500μA/μs) 20nA(5μA~50μA/μs)			6mA(1.6A~16A/μs) 600μA(160mA~1.6A/μs) 60μA(16mA~160mA/μs) 6μA(1.6mA~16mA/μs) 600nA(160μA~1.6mA/μs) 60nA(16μA~160μA/μs)			N/A	
METER												
Voltmeter	Accuracy	$\pm(0.1\% \text{ of rdg} + 0.1\% \text{ of f.s.})$									N/A	
Ammeter	Accuracy	$\pm(0.2\% \text{ of rdg} + 0.3\% \text{ of f.s.})$										
Ammeter(Parallel Operation)	Accuracy	$\pm(1.2\% \text{ of rdg} + 1.1\% \text{ of f.s.})$										
DYNAMIC MODE												
Operation Mode		CC and CR										
T1 & T2 Accuracy		0.025mS~10mS/Res : 1μs ; 1ms~30s/Res : 1ms 1μS/1ms ± 100ppm										
Slew Rate (CC Mode)	Range	H	2.5mA/μs~2.5A/μs			5mA/μs~5A/μs			16mA/μs~16A/μs			16mA/μs~16A/μs
		M	250μA/μs~250mA/μs			500μA/μs~500mA/μs			1.6mA/μs~1.6A/μs			1.6mA/μs~1.6A/μs
		L	25μA/μs~25mA/μs			50μA/μs~50mA/μs			160μA/μs~160mA/μs			N/A
Slew Rate (CR Mode)	Range	H	250μA/μs~250mA/μs			500μA/μs~500mA/μs			1.6mA/μs~1.6A/μs			N/A
		M	25μA/μs~25mA/μs			50μA/μs~50mA/μs			160μA/μs~160mA/μs			
		L	2.5μA/μs~2.5mA/μs			5μA/μs~5mA/μs			16μA/μs~16mA/μs			
Current Accuracy		±0.4%F.S.			±0.4%F.S.			±0.4%F.S.			±1.2%of set+1.1% of F.S.)	
PROTECTION FUNCTION												
Functions		Overvoltage protection(OVP), Overcurrent protection(OCP), Overpower protection(OPP), Overheat protection(OHP), Undervoltage protection(UVP), Reverse connection protection(REV)										
GENERAL												
Input Range		90VAC~132VAC/180VAC~250VAC Single-phase; 47Hz~63Hz										
Power(Max.)		90VA	110VA			190VA			230VA			
Interface		USB/RS232/Analog Control (Standard) ; GPIB(Optional)										
Dimensions & Weight		214.5(W)x124(H)x400(D)mm; Approx. 6kg			214.5(W)x124(H)x400(D)mm; Approx. 7kg			429.5(W)x128(H)x400(D)mm; Approx. 17kg			427.7(W)x128(H)x592.5(D)mm; Approx. 23kg	

Programmable D.C. Electronic Load

SPECIFICATIONS

Model	PEL-3212	PEL-3323	PEL-3424	PEL-3535	PEL-3322	PEL-3533	PEL-3744	PEL-3955		
Voltage	0V~150V	0V~150V	0V~150V	0V~150V	0V~150V	0V~150V	0V~150V	0V~150V		
Current	0~420A	0~630A	0~840A	0~1050A	0~630A	0~1050A	0~1470A	0~1890A		
Power	2100W	3150W	4200W	5250W	3150W	5250W	7350W	9450W		
Input Resistance	250 kΩ	166.7 kΩ	125 kΩ	100 kΩ	500 kΩ	500 kΩ	500 kΩ	500 kΩ		
Min. Operating Voltage(DC)(Typ.)	0.75V@210A 1.5V@420A	0.75V@315A 1.5V@630A	0.75V@420A 1.5V@840A	0.75V@525A 1.5V@1050A	0.75V@315A 1.5V@630A	0.75V@525A 1.5V@1050A	0.75V@735A 1.5V@1470A	0.75V@945A 1.5V@1890A		
CONSTANT CURRENT MODE										
Operating Range	H,M,L	0~420A/0~42A/0~4.2A	0~630A/0~63A/0~6.3A	0~840A/0~84A/0~8.4A	0~1050A/0~105A/0~10.5A	0~630A/0~63A/N/A	0~1050A/0~105A/N/A	0~1470A/0~147A/N/A	0~1890A/0~189A/N/A	
Accuracy of Setting	H,M,L	±(0.2% of set + 0.1% of f.s. ⁽¹⁾) + Vin ⁽²⁾ /500 kΩ								
Resolution	H,M,L	20mA/2mA/0.2mA	30mA/3mA/0.3mA	40mA/4mA/0.4mA	50mA/5mA/0.5mA	30mA/3mA/N/A	50mA/5mA/N/A	70mA/7mA/N/A	90mA/9mA/N/A	
CR MODE										
Operating Range	Range	H	280.0032S~4.8mS (3.57138mΩ~ 208.333Ω)	420.0048S~7.2mS (2.38092mΩ~ 138.888Ω)	560.0064S~9.6mS (1.78569mΩ~ 104.166Ω)	700.008S~12mS (1.42855mΩ~ 83.333Ω)	420.0048S~7.2mS (2.38092mΩ~ 138.888Ω)	700.008S~12mS (1.42855mΩ~ 83.333Ω)	980.0112S~16.8mS (1.02039mΩ~ 59.5238Ω)	1260.0144S~21.6mS (793.641mΩ~ 46.2963Ω)
		M	28.00032S~480μS (35.7138mΩ~ 2083.33Ω)	42.00048S~720μS (23.8092mΩ~ 1388.88Ω)	56.00064S~960μS (17.8569mΩ~ 1041.66Ω)	70.0008S~1.2mS (14.2855mΩ~ 833.333Ω)	42.00048S~720μS (23.8092mΩ~ 1388.88Ω)	70.0008S~1.2mS (14.2855mΩ~ 833.333Ω)	98.00112S~1.68mS (10.2039mΩ~ 595.238Ω)	126.00144S~2.16mS (7.93641mΩ~ 462.963Ω)
		L	2.800032S~48μS (357.138mΩ~ 20.8333kΩ)	4.200048S~72μS (238.092mΩ~ 13.8888kΩ)	5.600064S~96μS (178.569mΩ~ 10.4166kΩ)	7.00008S~120μS (142.855mΩ~ 8.33333kΩ)	N/A	N/A	N/A	N/A
Accuracy of Setting	H,M,L	±(0.5% of set ⁽³⁾ + 0.5% of f.s. ⁽³⁾) + Vin ⁽²⁾ /500kΩ								
Resolution	H,M,L	4.8mS/480μS/48μS	7.2mS/720μS/72μS	9.6mS/960μS/96μS	12mS/1.2mS/120μS	7.2mS/720μS	12mS/1.2mS	16.8mS/1.68mS	21.6mS/2.16mS	
CONSTANT VOLTAGE MODE										
Operating Range	Range	H	1.5V~150V							
		L	1.5V~15V							
Accuracy of Setting	H,L	±(0.1% of set + 0.1% of f.s.)								
Resolution	H,L	10mV/1mV								
CONSTANT POWER MODE										
Operating Range	Range	H	210W~2100W	315W~3150W	420W~4200W	525W~5250W	315W~3150W	525W~5250W	735W~7350W	945W~9450W
		M	21W~210W	31.5W~315W	42W~420W	52.5W~525W	31.5W~315W	52.5W~525W	73.5W~735W	94.5W~945W
		L	2.1W~21W	3.15W~31.5W	4.2W~42W	5.25W~52.5W	N/A	N/A	N/A	N/A
Accuracy of Setting	H,M,L	±(0.6% of set + 1.4% of f.s. ⁽³⁾)								
Resolution	H,M,L	200mW/20mW/2mW	300mW/30mW/3mW	400mW/40mW/4mW	500mW/50mW/5mW	300mW/30mW	500mW/50mW	700mW/70mW	900mW/90mW	
PARALLEL Mode										
Capacity		-								
SLEW RATE										
Operation Mode		CC, CR								
Setting Range (CC mode)	Range	H	32mA/μs~16A/μs	48mA/μs~16A/μs	64mA/μs~16A/μs	80mA/μs~16A/μs	48mA/μs~16A/μs	80mA/μs~16A/μs	112mA/μs~16A/μs	144mA/μs~16A/μs
		M	3.2mA/μs~1.6A/μs	4.8mA/μs~1.6A/μs	6.4mA/μs~1.6A/μs	8mA/μs~1.6A/μs	4.8mA/μs~1.6A/μs	8mA/μs~1.6A/μs	11.2mA/μs~1.6A/μs	14.4mA/μs~1.6A/μs
		L	320μA/μs~160mA/μs	480μA/μs~160mA/μs	640μA/μs~160mA/μs	800μA/μs~160mA/μs	N/A	N/A	N/A	N/A
Setting Range (CR Mode)	Range	H	3.2mA/μs~1.6A/μs	4.8mA/μs~1.6A/μs	6.4mA/μs~1.6A/μs	8mA/μs~1.6A/μs	4.8mA/μs~1.6A/μs	8mA/μs~1.6A/μs	11.2mA/μs~1.6A/μs	14.4mA/μs~1.6A/μs
		M	320μA/μs~160mA/μs	480μA/μs~160mA/μs	640μA/μs~160mA/μs	800μA/μs~160mA/μs	480μA/μs~160mA/μs	800μA/μs~160mA/μs	1.12mA/μs~160mA/μs	1.44mA/μs~160mA/μs
		L	32μA/μs~16mA/μs	48μA/μs~16mA/μs	64μA/μs~16mA/μs	80μA/μs~16mA/μs	N/A	N/A	N/A	N/A
Accuracy of Setting	H,M,L	±(10% of set ⁽³⁾ + 5μs)								
Resolution		12mA(1.6A~16A/μs) 1.2mA(160mA~1.6A/μs) 120μA(16mA~160mA/μs) 12μA(1.6mA~16mA/μs) 1.2μA(160μA~1.6mA/μs) 120nA(16μA~160μA/μs)	18mA(1.6A~16A/μs) 1.8mA(160mA~1.6A/μs) 180μA(16mA~160mA/μs) 18μA(1.6mA~16mA/μs) 1.800μA(160μA~1.6mA/μs) 180nA(16μA~160μA/μs)	24mA/μs(1.6A~16A/μs) 2.4mA/μs(160mA~1.6A/μs) 240μA/μs(16mA~160mA/μs) 24μA/μs(1.6mA~16mA/μs) 2.4μA/μs(160μA~1.6mA/μs) 240nA/μs(16μA~160μA/μs)	30mA(1.6A~16A/μs) 3mA(160mA~1.6A/μs) 300μA(16mA~160mA/μs) 30μA(1.6mA~16mA/μs) 3μA(160μA~1.6mA/μs) 300nA(16μA~160μA/μs)	18mA(1.6A~16A/μs) 1.8mA(160mA~1.6A/μs) 180μA(16mA~160mA/μs) 18μA(1.6mA~16mA/μs) 1.8μA(160μA~1.6mA/μs) N/A	30mA(1.6A~16A/μs) 3mA(160mA~1.6A/μs) 300μA(16mA~160mA/μs) 30μA(1.6mA~16mA/μs) 3μA(160μA~1.6mA/μs) N/A	42mA(1.6A~16A/μs) 4.2mA(160mA~1.6A/μs) 420μA(16mA~160mA/μs) 42μA(1.6mA~16mA/μs) 4.2μA(160μA~1.6mA/μs) N/A	54mA(1.6A~16A/μs) 5.4mA(160mA~1.6A/μs) 540μA(16mA~160mA/μs) 54μA(1.6mA~16mA/μs) 5.4μA(160μA~1.6mA/μs) N/A	
METER										
Voltmeter Accuracy		±(0.1% of rdg + 0.1% of f.s.)								
Ammeter Accuracy		±(0.2% of rdg + 0.3% of f.s.)								
DYNAMIC MODE										
Operation Mode T1 & T2 Accuracy		CC and CR 0.025mS~10mS/Res: 1μs; 1mS~30S/Res: 1mS 1μS/1ms ± 100ppm								
Slew Rate (CC Mode)	Range	H	32mA/μs~16A/μs	48mA/μs~16A/μs	64mA/μs~16A/μs	80mA/μs~16A/μs	48mA/μs~16A/μs	80mA/μs~16A/μs	112mA/μs~16A/μs	144mA/μs~16A/μs
		M	3.2mA/μs~1.6A/μs	4.8mA/μs~1.6A/μs	6.4mA/μs~1.6A/μs	8mA/μs~1.6A/μs	4.8mA/μs~1.6A/μs	8mA/μs~1.6A/μs	11.2mA/μs~1.6A/μs	14.4mA/μs~1.6A/μs
		L	320μA/μs~160mA/μs	480μA/μs~160mA/μs	640μA/μs~160mA/μs	800μA/μs~160mA/μs	N/A	N/A	N/A	N/A
Slew Rate (CR Mode)	Range	H	3.2mA/μs~1.6A/μs	4.8mA/μs~1.6A/μs	6.4mA/μs~1.6A/μs	8mA/μs~1.6A/μs	4.8mA/μs~1.6A/μs	8mA/μs~1.6A/μs	11.2mA/μs~1.6A/μs	14.4mA/μs~1.6A/μs
		M	320μA/μs~160mA/μs	480μA/μs~160mA/μs	640μA/μs~160mA/μs	800μA/μs~160mA/μs	480μA/μs~160mA/μs	800μA/μs~160mA/μs	1.12mA/μs~160mA/μs	1.44mA/μs~160mA/μs
		L	32μA/μs~16mA/μs	48μA/μs~16mA/μs	64μA/μs~16mA/μs	80μA/μs~16mA/μs	N/A	N/A	N/A	N/A
Current Accuracy		±0.4%F.S.								
PROTECTION FUNCTION										
Functions		Overvoltage protection (OVP), Overcurrent protection (OCP), Overpower protection (OPP), Overheat protection (OHP), Undervoltage protection (UVP), Reverse connection protection (REV)								
GENERAL										
Input Range		90VAC~132VAC/180VAC~250VAC Single-phase; 47Hz~63Hz								
Power(Max.)		380VA	570VA	760VA	950VA	420VA	650VA	880VA	1110VA	
Interface		USB/RS232/Analog Control (Standard); GPIB(Optional)								
Dimensions & Weight		598(W)x877(H)x706(D)mm; Approx. 67.5kg	598(W)x877(H)x706(D)mm; Approx. 85.5kg	598(W)x877(H)x706(D)mm; Approx. 110kg	598(W)x877(H)x706(D)mm; Approx. 127.5kg	598(W)x877(H)x706(D)mm; Approx. 73kg	598(W)x877(H)x706(D)mm; Approx. 96.5kg	598(W)x877(H)x706(D)mm; Approx. 125kg	598(W)x877(H)x706(D)mm; Approx. 149kg	

PEL-3000/3000(H) Series

ELECTRONIC LOAD

SPECIFICATIONS

Model		PEL-3021H			PEL-3041H			PEL-3111H			PEL-3211H		
Voltage		0V~800V			0V~800V			0V~800V			0V~800V		
Current		8.75A			17.5A			52.5A			105A		
Power		175W			350W			1050W			2100W		
Input Resistance		3.24MΩ			3.24MΩ			3.24MΩ			N/A		
Min. Operating Voltage(DC)(Typ.)		5V@8.75A 2.5V@4.375A			5V@17.5A 2.5V@8.75A			5V@52.5A 2.5V@26.25A			5V@105A 2.5V@52.5A		
CONSTANT CURRENT MODE													
Operating Range	H, M, L	0~8.75A 0~875mA 0~87.5mA			0~17.5A 0~1.75A 0~175mA			0~52.5A 0~5.25A 0~525mA			0~105A 0~10.5A 0~1.05A		
Accuracy of Setting	H, M, L	±(0.2 % of set + 0.1 % of f.s. ⁽¹⁾) + Vin ⁽²⁾ /3.24MΩ										±(1.2% of set+1.1% of f.s)	
Accuracy of Setting(Parallel)	H, M, L	±(1.2% of set +1.1% of f.s. ⁽³⁾)										±(1.2% of set+1.1% of f.s)	
Resolution	H, M, L	300μA	30μA	3μA	0.6mA	60μA	6μA	2mA	200μA	20μA	N/A		
CR MODE													
Operating Range	Range	H	1.75S~30μS (571Ω~33.3MΩ)			3.5S~60μS (285mΩ~16.6kΩ)			10.5S~180μS (95.2mΩ~5.55kΩ)			21S~360μS (95.2mΩ~2.777kΩ)	
		M	1.75mS~3μS (5.71Ω~333MΩ)			350mS~6μS (2.85mΩ~166kΩ)			1.05S~18μS (952mΩ~55.5kΩ)			2.1S~36μS (476mΩ~27.77kΩ)	
		L	17.5mS~0.3μS (57.1Ω~3.33MΩ)			35mS~0.6μS (28.5mΩ~1.66MΩ)			105mS~1.8μS (9.52Ω~555kΩ)			210mS~3.6μS (4.762Ω~277.7kΩ)	
Accuracy of Setting	H, M, L	±(0.5% set + 0.5% f.s. ⁽⁴⁾) + Vin ⁽²⁾ /3.24MΩ										±(1.2% of set +1.1% of f.s)TYP	
Parallel		±(1.2 % of set + 1.1 % of f.s. ⁽³⁾)										N/A	
Resolution	H, M, L	30μS	3μS	0.3μS	60μS	6μS	0.6μS	180μS	18μS	1.8μS	N/A		
CONSTANT VOLTAGE MODE													
Operating Range	Range	H	5V~800V									5V~800V	
		L	5V~80V									5V~80V	
Accuracy of Setting	Range	H, L	±(0.2% of set + 0.2% of f.s)									±(0.2% of set + 0.2% of f.s)	
	Parallel	TYP	±(0.2% of set + 0.2% of f.s)									±(0.2% of set + 0.2% of f.s)	
Resolution	Range	H, L	20mV/2mV									N/A	
CONSTANT POWER MODE													
Operating Range	Range	H	17.5W~175W			35W~350W			105W~1050W			210W~2100W	
		M	1.75W~17.5W			3.5W~350W			10.5W~105W			21W~210W	
		L	0.175W~1.75W			0.35W~10.5W			1.05W~10.5W			2.1W~21W	
Accuracy of Setting	H, M	±(0.6 % of set + 1.4 % of f.s.)+Vin/3.24MΩ										±(5 % of f.s)TYP	
Resolution	H, M, L	10mW	1mW	0.1mW	10mW	1mW	0.1mW	100mW	10mW	1mW	N/A		
PARALLEL Mode													
Capacity		875W			1750W			5250W			PEL-3111H with 4 booster units : Max 9.45kW		
SLEW RATE													
Operation Mode		CC, CR			CC, CR			CC, CR			N/A		
Setting Range (CC mode)	Range	H	0.14mA/μs~140mA/μs			0.280mA/μs~280.0mA/μs			0.840mA/μs~840mA/μs			N/A	
		M	0.014mA/μs~14mA/μs			0.0280mA/μs~28.00mA/μs			0.0840mA/μs~84.00mA/μs			N/A	
		L	1.4μA/μs~1400μA/μs			2.80μA/μs~2800μA/μs			0.00840mA/μs~8.400mA/μs			N/A	
Setting Range (CR Mode)	Range	H	0.014mA/μs~14mA/μs			0.0280mA/μs~28.00mA/μs			0.0840mA/μs~84.00mA/μs			N/A	
		M	0.0014mA/μs~1.4mA/μs			0.00280mA/μs~2.800mA/μs			0.00840mA/μs~8.400mA/μs			N/A	
		L	0.14μA/μs~140μA/μs			0.280μA/μs~280.0μA/μs			0.000840mA/μs~0.8400mA/μs			N/A	
Accuracy of Setting	H, M, L	±(10 % of set + 25μs)										N/A	
Resolution		50μA(14mA~140mA/μs) 5μA(1.4mA~14mA/μs) 0.5μA(140μA~1.4mA/μs) 50nA(14μA~140μA/μs) 5nA(1.4μA~14μA/μs) 0.5nA(0.14μA~1.4μA/μs)			100μA(28mA~280mA/μs) 10μA(2.8mA~28mA/μs) 1μA(280μA~2.8mA/μs) 0.1μA(28μA~280μA/μs) 10nA(2.8μA~28μA/μs) 1nA(0.28μA~2.8μA/μs)			300μA(84mA~0.84A/μs) 30μA(8.4mA~84mA/μs) 3μA(840μA~8.4mA/μs) 0.3μA(84μA~840μA/μs) 30nA(8.4μA~84μA/μs) 3nA(0.84μA~8.4μA/μs)			N/A		
METER													
Voltmeter	Accuracy	±(0.1 % of rdg + 0.1 % of f.s)										±(0.1 % of rdg + 0.1 % of f.s)TYP	
Ammeter	Accuracy	±(0.2 % of rdg + 0.3 % of f.s)										N/A	
Ammeter(Parallel Operation)	Accuracy	±(1.2% of rdg +1.1% of f.s.)										±(1.2% of rdg +1.1% of f.s)TYP	
DYNAMIC MODE													
Operation Mode		CC, CR, CP										N/A	
T1 & T2 Accuracy		0.025mS~10mS/Res : 1μs ; 10ms~60s/Res : 1ms ± 100ppm of setting										N/A N/A ± 100ppm of setting	
Slew Rate (CC Mode)	Range	H	0.140mA/μs~140.0A/μs			0.280mA/μs~280.0A/μs			0.840mA/μs~840.0mA/μs			N/A	
		M	0.014mA/μs~14.00mA/μs			0.028mA/μs~28.00mA/μs			0.084mA/μs~84.00A/μs			N/A	
		L	1.400μA/μs~1400.0μA/μs			2.800μA/μs~2800μA/μs			0.0084mA/μs~8.400mA/μs			N/A	
Slew Rate (CR Mode)	Range	H	0.014mA/μs~14.000mA/μs			0.028mA/μs~28.00mA/μs			0.084mA/μs~84.00mA/μs			N/A	
		M	0.0014mA/μs~1.4000mA/μs			0.028mA/μs~2.800mA/μs			0.0084mA/μs~8.400mA/μs			N/A	
		L	0.1400μA/μs~140.00μA/μs			0.280μA/μs~280.0μA/μs			0.00084mA/μs~0.8400mA/μs			N/A	
Current Accuracy		±0.4%F.S.			±0.4%F.S.			±0.4%F.S.			±0.4%F.S.		
PROTECTION FUNCTION													
Functions		Overvoltage protection(OVP), Overcurrent protection(OCP), Overpower protection(OPP), Overheat protection(OHP), Undervoltage protection(UVP), Reverse connection protection(REV)											
GENERAL													
Input Range		90VAC~132VAC/180VAC~250VAC Single-phase; 47Hz~63Hz											
Power(Max.)		90VA			110VA			190VA			230VA		
Interface		Std : USB/RS232/Analog Control ; Opt : GPIB											
Dimensions & Weight		213.8(W)x124(H)x400.5(D)mm; Approx. 6kg			213.8(W)x124(H)x400.5(D)mm; Approx. 7kg			427.8(W)x124(H)x400.5(D)mm; Approx. 17kg			427.7(W)x127.8(H)x553.5(D)mm; Approx. 23kg		

Programmable D.C. Electronic Load

SPECIFICATIONS

Model	PEL-3212H	PEL-3323H	PEL-3424H	PEL-3535H	PEL-3322H	PEL-3533H	PEL-3744H	PEL-3955H				
Voltage	0V~800V	0V~800V	0V~800V	0V~800V	0V~800V	0V~800V	0V~800V	0V~800V				
Current	0~105A	0~157.5A	0~210A	0~262.5A	0~157.5A	0~262.5A	0~367.5A	0~472.5A				
Power	2100W	3150W	4200W	5250W	3150W	5250W	7350W	9450W				
Input Resistance	1.62MΩ	1.08MΩ	0.81MΩ	0.648MΩ	3.24MΩ	3.24MΩ	3.24MΩ	3.24MΩ				
Min. Operating Voltage(DC)(Typ.)	5V@105A 2.5V@52.5A	5V@157.5A 2.5V@78.75A	5V@210A 2.5V@105A	5V@262.5A 2.5V@131.25A	5V@157.5A 2.5V@78.75A	5V@262.5A 2.5V@131.25A	5V@367.5A 2.5V@183.75A	5V@472.5A 2.5V@236.25A				
CONSTANT CURRENT MODE												
Operating Range	H,M,L	0~105A 0~10.5A 0~1.05A	0~157.5A 0~15.75A 0~1.575A	0~210A 0~21A 0~2.1A	0~262.5A 0~26.25A 0~2.625A	0~157.5A 0~15.75A 0~1.575A	0~262.5A 0~26.25A 0~2.625A	0~367.5A 0~36.75A 0~3.675A	0~472.5A 0~47.25A 0~4.725A			
Accuracy of Setting	H,M,L	$\pm(0.2\% \text{ of set} + 0.1\% \text{ of f.s.}^{(1)}) + \text{Vin}^{(2)}/3.24\text{M}\Omega$				$\pm(1.2\% \text{ of set} + 1.1\% \text{ of f.s.}^{(1)}) + \text{Vin}^{(2)}/3.24\text{M}\Omega^{(3)}$						
Resolution	H,M,L	4mA 0.4mA 0.04mA	6mA 0.6mA 0.06mA	8mA 0.8mA 0.08mA	10mA 1mA 0.1mA	6mA 0.6mA 0.06mA	10mA 1mA 0.1mA	14mA 1.4mA 0.14mA	18mA 1.8mA 0.18mA			
CR MODE												
Operating Range⁽⁴⁾	Range	H	21S~360μS (47.619mΩ~ 2.778kΩ)	M	31.5S~540μS (31.746mΩ~ 1.85185kΩ)	L	42S~72mS (23.8095mΩ~ 1.3889kΩ)	52.5S~0.9mS (19.0476mΩ~ 1.11111kΩ)	31.5S~540μS (31.746mΩ~ 1.85185kΩ)	52.5S~0.9mS (19.0476mΩ~ 1.11111kΩ)	73.5S~1.26mS (13.6054mΩ~ 793.651Ω)	94.5S~1.26mS (10.582mΩ~ 617.284Ω)
		M	2.1S~36μS (476.19mΩ~ 27.778kΩ)	3.15S~540μS (317.46mΩ~ 18.5185kΩ)	4.2S~72mS (238.095mΩ~ 13.8889kΩ)	5.25S~0.9mS (190.476mΩ~ 11.1111kΩ)	3.15S~540μS (317.46mΩ~ 18.5185kΩ)	5.25S~0.9mS (190.476mΩ~ 11.1111kΩ)	7.35S~1.26μS (136.054mΩ~ 7.93651kΩ)	9.45S~1.26μS (105.82mΩ~ 6.17284kΩ)		
		L	210mS~3.6μS (4.7619Ω~ 277.78kΩ)	315mS~540μS (3.1746Ω~ 185.185kΩ)	420mS~0.72mS (2.38095Ω~ 138.888kΩ)	525mS~0.9mS (1.90476Ω~ 111.111kΩ)	315mS~540μS (3.1746Ω~ 185.185kΩ)	525mS~0.9mS (1.90476Ω~ 111.111kΩ)	735mS~12.6μS (1.36054Ω~ 79.365kΩ)	945mS~162μS (1.0582Ω~ 61.7284kΩ)		
Accuracy of Setting⁽⁵⁾	H,M,L	$\pm(0.5\% \text{ of set}^{(6)} + 0.5\% \text{ of f.s.}^{(1)}) + \text{Vin}^{(2)}/3.24\text{M}\Omega$: Alone operation specifications										
Resolution		360μS 36μS 3.6μS	540μS 54μS 5.4μS	720μS 72μS 7.2μS	900μS 90μS 9μS	540μS 54μS 5.4μS	900μS 90μS 9μS	1.26mS 126μS 12.6μS	1.62mS 162μS 16.2μS			
CONSTANT VOLTAGE MODE												
Operating Range	Range	H	5V~800V									
		L	5V~80V									
Accuracy of Setting⁽⁷⁾	Range	H,L	$\pm(0.2\% \text{ of set} + 0.2\% \text{ of f.s.})$									
Resolution	Range	H,L	20mV/2mV									
CONSTANT POWER MODE												
Operating Range	Range	H	0W~2100W	0W~3150W	0W~4200W	0W~5250W	0W~3150W	0W~5250W	0W~7350W	0W~9450W		
		M	0W~210W	0W~315W	0W~420W	0W~525W	0W~315W	0W~525W	0W~735W	0W~945W		
		L	0W~21W	0W~31.5W	0W~42W	0W~52.5W	0W~31.5W	0W~52.5W	0W~73.5W	0W~94.5W		
Accuracy of Setting⁽⁸⁾	H,M,L	$\pm(0.6\% \text{ of set} + 1.4\% \text{ of f.s.}^{(9)}) + \text{Vin} \times \text{Vin}^{(10)}/3.24\text{M}\Omega$: Alone operation specifications										
Resolution		200mW 20mW 2mW	300mW 30mW 3mW	400mW 40mW 4mW	500mW 50mW 5mW	300mW 30mW 3mW	500mW 50mW 5mW	700mW 70mW 7mW	900mW 90mW 9mW			
PARALLEL Mode												
Capacity		-										
SLEW RATE												
Operation Mode		CC, CR										
Setting Range (CC mode)	Range	H	1.68mA/μs~840mA/μs	2.52mA/μs~839.7mA/μs	3.36mA/μs~840mA/μs	4.2mA/μs~840mA/μs	2.52mA/μs~839.7mA/μs	4.2mA/μs~840mA/μs	5.88mA/μs~840mA/μs	7.56mA/μs~839.7mA/μs		
		M	168μA/μs~84mA/μs	252μA/μs~83.97mA/μs	336μA/μs~84mA/μs	420μA/μs~84mA/μs	252μA/μs~83.97mA/μs	420μA/μs~84mA/μs	588μA/μs~84mA/μs	756μA/μs~83.97mA/μs		
		L	16.8μA/μs~8.4mA/μs	25.2μA/μs~8.397mA/μs	33.6μA/μs~8.4mA/μs	42μA/μs~8.4mA/μs	25.2μA/μs~8.397mA/μs	42μA/μs~8.4mA/μs	58.8μA/μs~8.4mA/μs	75.6μA/μs~8.397mA/μs		
Setting Range (CR Mode)	Range	H	168μA/μs~84mA/μs	252μA/μs~83.97mA/μs	336μA/μs~84mA/μs	420μA/μs~84mA/μs	252μA/μs~83.97mA/μs	420μA/μs~84mA/μs	588μA/μs~84mA/μs	756μA/μs~83.97mA/μs		
		M	16.8μA/μs~8.4mA/μs	25.2μA/μs~8.397mA/μs	33.6μA/μs~8.4mA/μs	42μA/μs~8.4mA/μs	25.2μA/μs~8.397mA/μs	42μA/μs~8.4mA/μs	58.8μA/μs~8.4mA/μs	75.6μA/μs~8.397mA/μs		
		L	1.68μA/μs~840μA/μs	2.52μA/μs~839.7μA/μs	3.36μA/μs~840μA/μs	4.2μA/μs~840μA/μs	2.52μA/μs~839.7μA/μs	4.2μA/μs~840μA/μs	5.88μA/μs~840μA/μs	7.56μA/μs~839.7μA/μs		
Accuracy of Setting⁽⁹⁾	H,M,L	$\pm(10\% \text{ of set} + 25\mu\text{s})$										
Resolution		600μA(168mA~840mA/μs) 60μA(16.8mA~84mA/μs) 6μA(1.68mA~8.4mA/μs)	900μA(252mA~839.7mA/μs) 90μA(25.2mA~83.97mA/μs) 9μA(2.52mA~8.397mA/μs)	1.2mA(336mA~840mA/μs) 120μA(33.6mA~84mA/μs) 12μA(3.36mA~8.4mA/μs)	1.5mA(420mA~840mA/μs) 150μA(42mA~84mA/μs) 15μA(4.2mA~8.4mA/μs)	900μA(252mA~839.7mA/μs) 90μA(25.2mA~83.97mA/μs) 9μA(2.52mA~8.397mA/μs)	1.5mA(420mA~840mA/μs) 150μA(42mA~84mA/μs) 15μA(4.2mA~8.4mA/μs)	2.1mA(588mA~840mA/μs) 210μA(58.8mA~84mA/μs) 21μA(5.88mA~8.4mA/μs)	2.7mA(756mA~839.7mA/μs) 270μA(75.6mA~83.97mA/μs) 27μA(7.56mA~8.397mA/μs)			
		600nA(0.1680mA~8.4mA/μs) 60nA(0.01680mA~8.4mA/μs) 6nA(0.00168mA~0.84mA/μs)	900nA(252nA~83.97mA/μs) 90nA(25.2nA~8.397μA/μs) 9nA(2.52nA~0.8397μA/μs)	1.2μA(336μA~84mA/μs) 120nA(33.6μA~8.4mA/μs) 12nA(3.36μA~0.84mA/μs)	1.5μA(420μA~84mA/μs) 150nA(42μA~8.4mA/μs) 15nA(4.2μA~0.84mA/μs)	900nA(252nA~83.97mA/μs) 90nA(25.2nA~8.397μA/μs) 9nA(2.52nA~0.8397μA/μs)	1.5μA(420μA~84mA/μs) 150nA(42μA~8.4mA/μs) 15nA(4.2μA~0.84mA/μs)	2.1μA(588μA~84mA/μs) 210nA(58.8μA~8.4mA/μs) 21nA(5.88μA~0.84mA/μs)	2.7μA(756μA~83.97mA/μs) 270nA(75.6μA~8.397μA/μs) 27nA(7.56μA~0.8397μA/μs)			
METER												
Voltmeter Accuracy		$\pm(0.1\% \text{ of rdg} + 0.1\% \text{ of f.s.})$										
Ammeter Accuracy		$\pm(1.2\% \text{ of rdg} + 1.1\% \text{ of f.s.})$										
DYNAMIC MODE												
Operation Mode		CC and CR										
T1 & T2 Accuracy		0.025mS~10mS/Res : 1μs ; 10mS~30S/Res : 1mS 1μS/1ms $\pm 100\text{ppm}$										
Slew Rate (CC Mode)	Range	H	1.68mA/μs~840mA/μs	2.52mA/μs~839.7mA/μs	3.36mA/μs~840mA/μs	4.2mA/μs~840mA/μs	2.52mA/μs~839.7mA/μs	4.2mA/μs~840mA/μs	5.88mA/μs~840mA/μs	7.56mA/μs~839.7mA/μs		
		M	168μA/μs~84mA/μs	252μA/μs~83.97mA/μs	336μA/μs~84mA/μs	420μA/μs~84mA/μs	252μA/μs~83.97mA/μs	420μA/μs~84mA/μs	588μA/μs~84mA/μs	756μA/μs~83.97mA/μs		
		L	16.8μA/μs~8.4mA/μs	25.2μA/μs~8.397mA/μs	33.6μA/μs~8.4mA/μs	42μA/μs~8.4mA/μs	25.2μA/μs~8.397mA/μs	42μA/μs~8.4mA/μs	58.8μA/μs~8.4mA/μs	75.6μA/μs~8.397mA/μs		
Slew Rate (CR Mode)	Range	H	168μA/μs~8.4mA/μs	252μA/μs~83.97mA/μs	336μA/μs~84mA/μs	420μA/μs~84mA/μs	252μA/μs~83.97mA/μs	420μA/μs~84mA/μs	588μA/μs~84mA/μs	756μA/μs~83.97mA/μs		
		M	16.8μA/μs~8.4mA/μs	25.2μA/μs~8.397mA/μs	33.6μA/μs~8.4mA/μs	42μA/μs~8.4mA/μs	25.2μA/μs~8.397mA/μs	42μA/μs~8.4mA/μs	58.8μA/μs~8.4mA/μs	75.6μA/μs~8.397mA/μs		
		L	1.68μA/μs~840μA/μs	2.52μA/μs~839.7μA/μs	3.36μA/μs~840μA/μs	4.2μA/μs~840μA/μs	2.52μA/μs~839.7μA/μs	4.2μA/μs~840μA/μs	5.88μA/μs~840μA/μs	7.56μA/μs~839.7μA/μs		
Current Accuracy		$\pm 0.4\% \text{ F.S.}$										
PROTECTION FUNCTION												
Functions		Overvoltage protection(OVP), Overcurrent protection(OCP), Overpower protection(OPP), Overheat protection(OHP), Undervoltage protection(UVP), Reverse connection protection(REV)										
GENERAL												
Input Range		90VAC~132VAC/180VAC~250VAC Single-phase; 47Hz~63Hz										
Power(Max.)		380VA	570VA	760VA	950VA	420VA	650VA	880VA	1110VA			
Interface		Std : USB/RS232/Analog Control ; Opt. : GPIB										
Dimensions & Weight		598(W)x877(H)x706(D)mm; Approx. 67.5kg	598(W)x877(H)x706(D)mm; Approx. 85.5kg	598(W)x877(H)x706(D)mm; Approx. 110kg	598(W)x877(H)x706(D)mm; Approx. 127.5kg	598(W)x877(H)x706(D)mm; Approx. 73kg	598(W)x877(H)x706(D)mm; Approx. 96.5kg	598(W)x877(H)x706(D)mm; Approx. 125kg	598(W)x877(H)x706(D)mm; Approx. 149kg			

PEL-3000/3000(H) Series

ELECTRONIC LOAD

ORDERING INFORMATION

PEL-3021 (150V/35A/175W) Single-Channel Programmable D.C. Electronic Load
PEL-3041 (150V/70A/350W) Single-Channel Programmable D.C. Electronic Load
PEL-3111 (150V/210A/1050W) Single-Channel Programmable D.C. Electronic Load
PEL-3211 (150V/420A/2100W) Single-Channel Programmable D.C. Electronic Load
PEL-3212 (150V/420A/2100W) Single-Channel Programmable D.C. Electronic Load
PEL-3322 (150V/630A/3150W) Single-Channel Programmable D.C. Electronic Load
PEL-3323 (150V/630A/3150W) Single-Channel Programmable D.C. Electronic Load
PEL-3424 (150V/840A/4200W) Single-Channel Programmable D.C. Electronic Load
PEL-3533 (150V/1050A/5250W) Single-Channel Programmable D.C. Electronic Load
PEL-3535 (150V/1050A/5250W) Single-Channel Programmable D.C. Electronic Load
PEL-3744 (150V/1470A/7350W) Single-Channel Programmable D.C. Electronic Load
PEL-3955 (150V/1890A/9450W) Single-Channel Programmable D.C. Electronic Load

PEL-3021H (800V/8.75A/175W) Single-Channel Programmable D.C. Electronic Load
PEL-3041H (800V/17.5A/350W) Single-Channel Programmable D.C. Electronic Load
PEL-3111H (800V/52.5A/1050W) Single-Channel Programmable D.C. Electronic Load
PEL-3211H (800V/105A/2100W) Single-Channel Programmable D.C. Electronic Load
PEL-3212H (800V/105A/2100W) Single-Channel Programmable D.C. Electronic Load
PEL-3322H (800V/157.5A/3150W) Single-Channel Programmable D.C. Electronic Load
PEL-3323H (800V/157.5A/3150W) Single-Channel Programmable D.C. Electronic Load
PEL-3424H (800V/210A/4200W) Single-Channel Programmable D.C. Electronic Load
PEL-3533H (800V/262.5A/5250W) Single-Channel Programmable D.C. Electronic Load
PEL-3535H (800V/262.5A/5250W) Single-Channel Programmable D.C. Electronic Load
PEL-3744H (800V/367.5A/7350W) Single-Channel Programmable D.C. Electronic Load
PEL-3955H (800V/472.5A/9450W) Single-Channel Programmable D.C. Electronic Load

ACCESSORIES :

Quick Start Guide, CD(User Manual/Programming Manual), Power Cord
PEL-011 Load Input Terminal Cover **PEL-012** Terminal Fittings Kits

GTL-255 Frame Link Cable 300mm
PEL-013 Flexible Terminal Cover

Front Terminal Washers
PEL-014 J1/J2 Protection Plug

OPTIONAL ASSESSORIES

CR123A 3V Lithium Battery for Clock.

GRA-413 Rack Mount Bracket for Booster PEL-3211(H) (EIA+JIS)

GRA-414-E Rack Mount Frame for PEL-3021(H), PEL-3041(H), PEL-3111(H)/EIA

GRA-414-J Rack Mount Frame for PEL-3021(H), PEL-3041(H), PEL-3111(H)/JIS

GTL-120 Test Lead (Max. 40A)

GTL-248 GPIB Cable, 2.0m

GTL-246 USB Cable Type A- Type B

PEL-010 Dust Filter

PEL-004 GPIB Option

PEL-005 Connect Cu Plate

PEL-006 Connect Cu Plate

PEL-007 Connect Cu Plate

PEL-008 Connect Cu Plate

PEL-009 Connect Cu Plate

FREE DOWNLOAD

Driver LabView Driver

PEL-005 Connect Cu Plate **PEL-006** Connect Cu Plate **PEL-007** Connect Cu Plate **PEL-008** Connect Cu Plate **PEL-009** Connect Cu Plate **GTL-120** Test Lead



PEL-011 Load Input Terminal Cover **PEL-012** Terminal Fittings Kits **PEL-013** Flexible Terminal Cover **PEL-014** J1/J2 Protection Plug **GTL-255** Frame Link Cable



PEL-3322(H)

PEL-3533(H)

PEL-3744(H)

PEL-3955(H)



PEL-3212(H)

PEL-3323(H)

PEL-3424(H)

PEL-3535(H)

GRA-413 Rack Mount Kit (EIA+JIS)

For : PEL-3211(H)



GRA-414-J Rack Mount Kit (JIS)

For : PEL-3021(H)/3041(H)/3111(H)



GRA-414-E Rack Mount Kit (EIA)

For : PEL-3021(H)/3041(H)/3111(H)

