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GW INSTEK
Simply Reliable



PEL-3000/3000H Series

Programmable D.C. Electronic Load

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/UVF 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/LAN (Optional)

GW INSTEK
Simply Reliable

Flexible Power Combinations, High-Speed and Versatile Load Simulations

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.

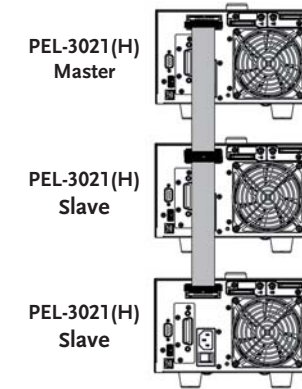
The Soft Start function of the PEL-3000(H) Series can set current rise time for the moment PEL-3000(H) Series is turned on to reduce the abnormal situation of the voltage drop of power supply under test. The adjustable Under Voltage Protection (UVP), GO/NO GO voltage input monitoring function, current 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 :

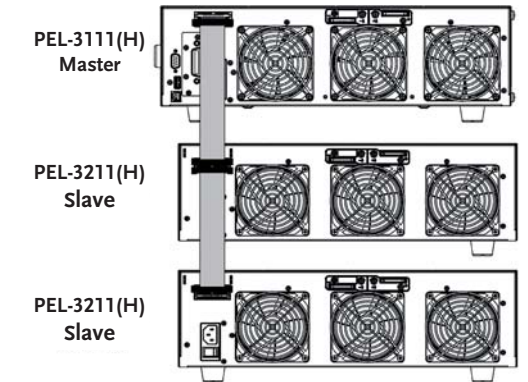
MODEL	PEL-3021(H)	PEL-3041(H)	PEL-3111(H)	PEL-3211(H)
Power	175W	350W	1,050W	2,100W Booster
Function	Full-function Single Unit	Full-function Single Unit	Full-function Single Unit	No control panel, can not be operated alone
Parallel Combination	Parallel with same model, 5 units the maximum	Parallel with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

A. OPERATING FUNCTION FOR MASTER AND SLAVE IN PARALLEL



Three PEL-3021(H) in Parallel

PEL-3000(H) Series connects with loads via MIL 20-pin interface and connecting cables to designate a master to control other slave units in parallel. One PEL-3111(H) and four PEL-3211(H) in parallel provide the maximum power of 9,450W.



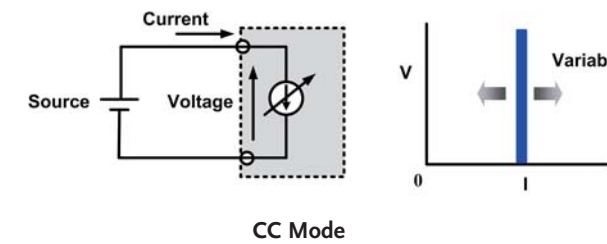
One PEL-3111(H) connects with two PEL-3211(H) in Parallel

Parallel arrangement allows users to flexibly select and apply different power arrangement which enhances equipment utilization efficiency to save R&D cost.

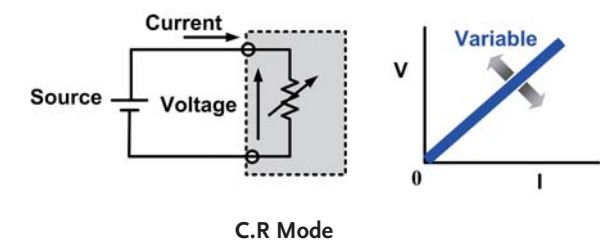
B. OPERATING MODE

The PEL-3000(H) series provides four fundamental operating modes and three add-on modes of CC, CR and CP separately combining with CV. Users can set different load condition under different operating modes such as setting operating range for load level, Current Slew Rate, input voltage and load current.

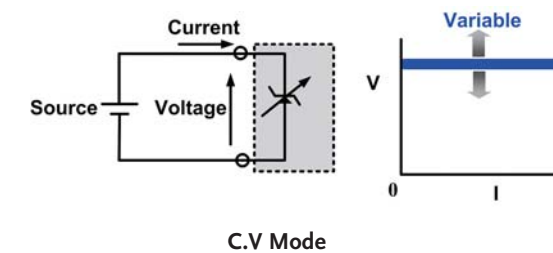
The input voltage range has two levels - high and low. The load current operating range has three levels - high, medium and low current levels which possess different resolution to meet test requirements of different power product specifications.



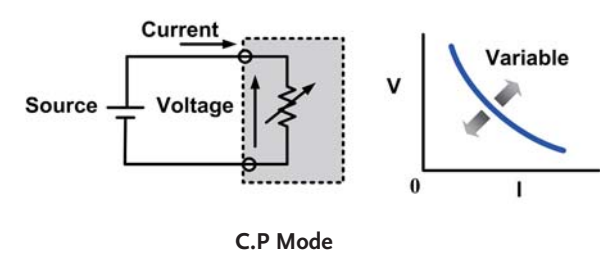
Under constant current mode, electronic load will sink the amount of current users has set. Different current settings via CC mode allow users to test the voltage changes of DC power supply which is called load regulation test.



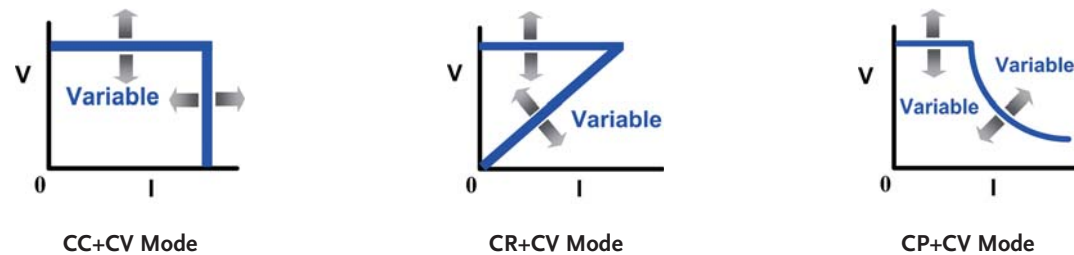
Under constant resistance mode, electronic load will sink load current, which is linearly direct proportion to input voltage. This mode can be utilized in testing voltage or the activation and current limit of power supply.



Under constant voltage mode, electronic load will sink sufficient current to regulate the voltage source to the set value. This mode allows users not only to test current limit function of power supply, but also to simulate battery operation in testing battery chargers.



Under constant power mode, electronic load will sink load current, which is indirect proportion to input voltage to reach preset constant power requirement. Hence, the changes of input voltage will have indirect proportion effect on current sinking so as to reach constant power control.



+CV mode can be selected under CC, CR or CP mode. When +CV mode function is turned on and electronic load sinks more current than the maximum current of power supply under test, electronic load will automatically switch to CV mode. It is because that the current sunk is the maximum current of power device. Therefore,

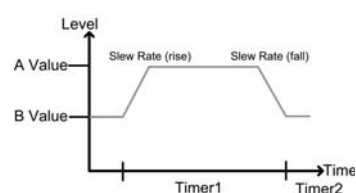
power supply will switch to CC mode and PEL-3000(H) will switch to CV mode to limit electronic load from sinking the total current of power supply so as to prevent power supply under test from damaging. Electronic load will cease operation once the voltage of DUT is lower than the set voltage under +CV mode.

C. THREE OPERATING FUNCTIONS

The PEL-3000(H) series, according to different test conditions, step or continuous changes, test speeds, and selectable modes, has three operating functions: Static, Dynamic and Sequence, which can be separately applied on a fixed load test; between two loads; or among more than two loads. Detailed descriptions of these functions are as follows:

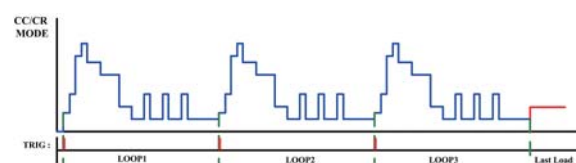
Static function provides a fixed load to test output stability of power supply. Switching load value A to B will be manually operated. Under Dynamic function, two test conditions can be switched automatically and every set of parameter includes Level, Timer and Slew Rate. Timer can be set to the fastest of 25μs to accommodate response time of different power supply and assist testing power supply output status when load is unstable in order to enhance products' reliability and quality.

Function	Operation	Static	Dynamic	Sequence	
				Fast	Normal
Operating Condition Selection	Single fixed condition	Selection between two conditions	Selection among more than two conditions	Selection from more than two conditions	
Operating Modes	All modes	• Two conditions using same mode • CR, CC, CP modes	• Each condition must use same mode • Support CC or CR mode	• Each condition using different mode • All modes	
Adjustable Condition Setting	• A/B Value • Slew Rate	• Level 1/Level 2 • Timer 1/Timer 2 (25μs) • Slew Rate 1/Slew Rate 2	• Level • Timer • Slew Rate • Others...	• Level • Timer • Slew Rate • Others...	
Sequence Step Combination	N/A	N/A	• 1 Sequence • 1,000 steps • 25μs/step • Res. 1μs	• 10 Sequence • 1,000 steps • 10μs/step • Res. 10μs	
Other Functions	N/A	N/A	• Trigger Out function	• Trigger Out function • Ramp function	



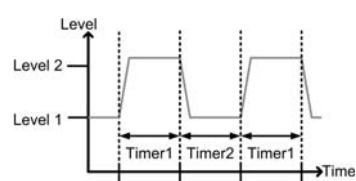
Static Mode

In Sequence function, waveforms of load current edited by Fast Sequence are steps and every step can reach the fastest of 25μs



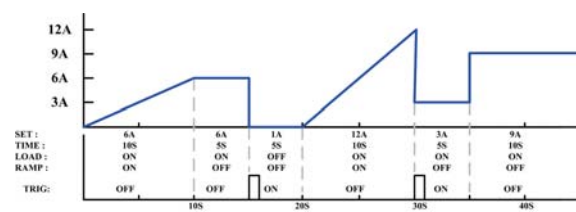
Fast Sequence Diagram

Normal Sequence provides RAMP function to users, according to their requirements, to select between slope and step method under set time to sink current.



Dynamic Mode

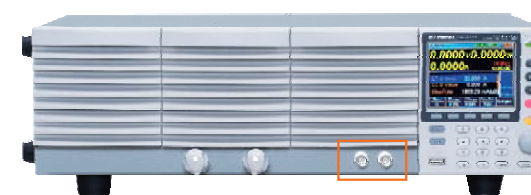
to provide the high slew rate for electronic loads.



Normal Sequence Diagram

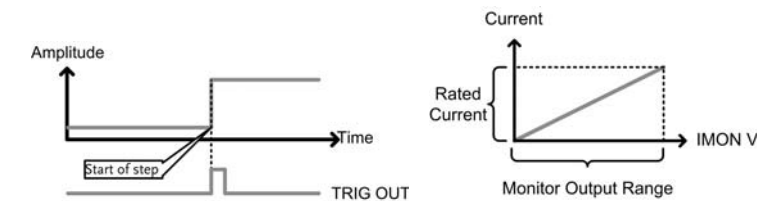
By applying a complete sequence editing function, users can control electronic load without using a computer or writing a program so as to save cost and time of R&D.

D. TRIGGER SIGNAL AND CURRENT MONITORING (IMON)



BNC connectors on the front panel

The front panel of PEL-3000(H), via BNC connectors provides two output signals, which are Trigger Signal and IMON. Under Dynamic or Sequence function, the moment the load current setting is changed BNC on the front panel will output a 4.5V and 2μs pulse voltage. This trigger signal can be set to open or close for every step. Users can use trigger signal to synchronize other devices inside the system.

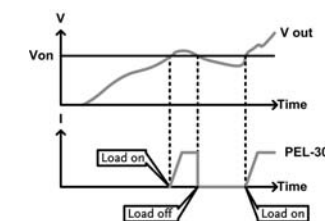


TRIG OUT = ON

IMON OUTPUT

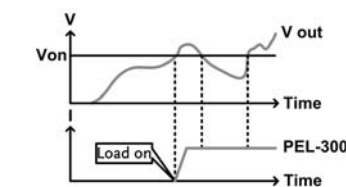
Current monitoring signals, using a BNC connector to compare with the full scale of real load current, output 0 ~ 1V (0~10V for PEL-3000H) at high and low current levels and 0 ~ 0.1V (0~1V for PEL-3000H) at medium current level. Therefore, users can monitor load current change without using current probe to save cost.

E. VON VOLTAGE AND VON LATCH FUNCTION



Von Latch = OFF

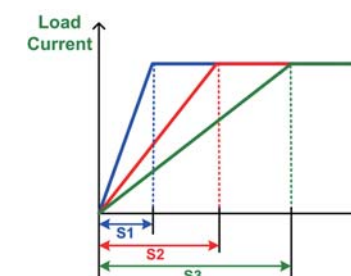
Von Voltage is the threshold voltage for electronic load to activate or terminate sinking current. When Von Latch is set to off, electronic load operation will be activated if input voltage is higher than Von Voltage and electronic load operation will be terminated if input voltage is lower than Von Voltage. When Von



Von Latch = ON

Latch is set to on, electronic load operation will be activated if input voltage is higher than Von Voltage and will continue operation even input voltage is lower than Von Voltage. Von Voltage function can test the transient maximum current capability provided by power supply.

F. SOFT START



Three different load waveforms of Soft Start Time

Soft Start regulates the time of current rising from 0 to preset value during the moment load is activated. This function is to prevent voltage from dropping due to the fast transient rising speed of load current. Sudden voltage drop will result in an unsuccessful activation of electronic load or DUT and a damaged DUT.

G. PROTECTION MODES

Functions	Protection	OCP	OVP	OPP	OTP	UVP	RVP
Adjustable Thresholds		✓	✓	✓	Fixed	✓	N/A
Load Off		✓	✓	✓	N/A	✓	Fixed
Limit Function		✓	N/A	✓	N/A	N/A	N/A

The PEL-3000(H) Series provides many protective functions including over current protection (OCP), over voltage protection (OVP), over power protection (OPP), over temperature protection (OTP) and under voltage protection (UVP). Except for OTP, all thresholds of protective functions are adjustable. When protective function is activated, electronic load will send out warning signal and terminate operation. Other than protective functions, Limit function can also be utilized to maintain electronic load in operation at a preset value. The related settings and selections are as above: Take UVP as an example. In battery bleeding tests, electronic load will cease operation if battery voltage is lower than the set protective threshold value in order to prevent battery from over bleeding.

H. ANALOG CHANNEL CONTROL



Rear Panel

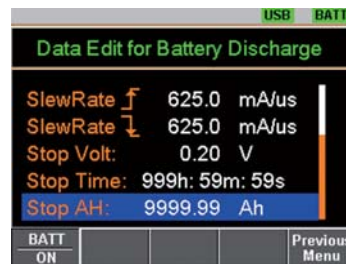


External Voltage Connection

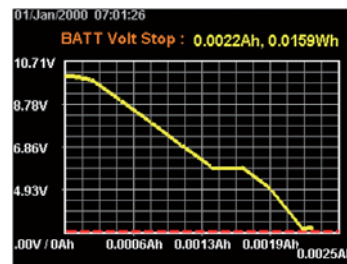
The PEL-3000(H) Series provides the external analog channel control function, which allows users to connect J1 and J2 MIL 20 pin standard connectors on the rear panel to input voltage or to connect resistance to control electronic load operation. Input voltage is limited to the range of 0 ~ 10V; connecting resistance

is limited to the range of 0Ω ~ 10kΩ; and related to load level are 0~100%. For instance, when operating PEL-3021 under CC mode and 35A, external input voltage is 1V and sink current is 3.5A. Users can integrate this function into test system and utilize signals generated from the test system to control PEL-3000(H) Series.

I. BATT TEST AUTOMATION



BATT Test Automation Editing



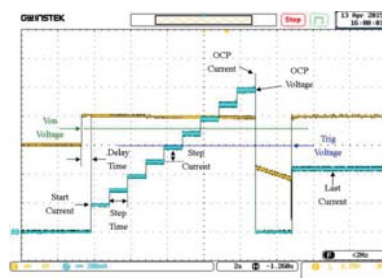
Waveform of TEST Result

Sample of Data Log

The built-in BATT Test Automation of PEL-3000(H) provides battery discharge applications with more flexible discharge stop time setting as well as rise and fall Slew Rate for discharge current settings. Under CP, CC or CR mode, the conditions for stop

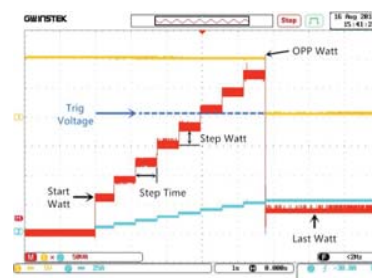
discharge can be set respectively. For instance, set the input voltage for stop discharge current, the execution time for discharge current or total discharge current*time (AH) to satisfy the verification of battery capability.

J. OCP TEST AUTOMATION



OCP test Automation for DUT(Power Supply), provide users with high resolution OCP measurement values to verify DUT's OCP activation point. It also provides users with measurement results so as to help them determine whether DUT's actual OCP activation point meets the regulations. It can test the value of OCP by setting load current increment from start current to stop current. OCP's activation point can be accurately measured.

K. OPP TEST AUTOMATION



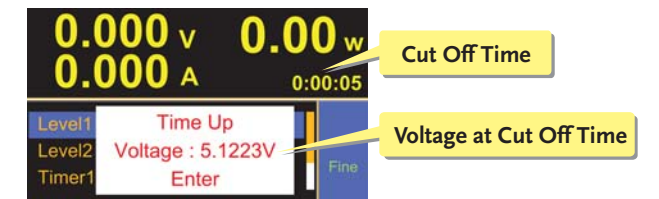
OPP test Automation for DUT(Power Supply), provide users with high resolution OPP measurement values to verify DUT's OPP activation point. It also provides users with measurement results so as to help them determine whether DUT's actual OPP activation point meets the regulations. It can test the value of OPP by setting power increment from start power to stop power. OPP's activation point can be accurately measured.

L. TIMER FUNCTIONS



Elapsed Time

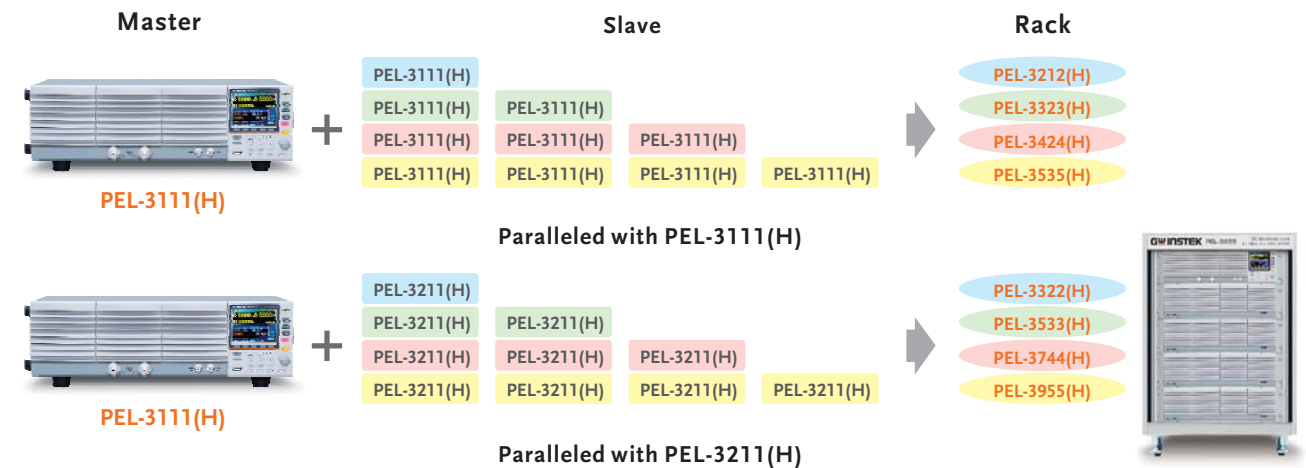
The PEL-3000(H) Series provides count time and cut off time functions. The display screen will show present activation time when electronic load is activated. When electronic load operation is terminated count time will stop and the total operation time will be shown on the display screen. The activation time of cut off time can be set to the maximum length of 999h 59min 59s. When electronic load is activated



Voltage at Cut Off Time

this function will start counting time. Electronic load will cease operation (load off) and show the final input voltage on the screen when preset time is reached. Timer function can provides information and application related to time. Users can obtain the total time of limiting electronic load operation to increase the agility of electronic load tests.

M. MASTER/S�AVE PARALLEL CONTROL



PEL-3111(H) can be used as either master or Slave. PEL-3111(H) can also be connected in parallel with PEL-3211(H) (Booster unit). Customers, based upon their DUT requirements, can collocate different models to meet their power requirements. The system collocation connection and terminals are all copper bar structure. System Rack is also available. When the Master/Slave control mode is selected, Master will automatically calculate current sunk as soon as load has been activated. The system will automatically

distribute current to each Master/Slave unit. For Master/Slave parallel collocation, users only enter settings and edit programs on Master. Logically speaking, Master/Slave parallel collocation can be regarded as one single load unit. Therefore, this collocation can safely provide load capacity with actual current and power in the respective level. Parallel collocation can also meet different current and power requirements.

N. RACK MODEL COLLOCATION AND RATED POWER

Model	PEL-3322	PEL-3533	PEL-3744	PEL-3955
Watt	3150W	5250W	7350W	9450W
Current	0-630A	0-1050A	0-1470A	0-1890A
Collocation	PEL-3111+PEL-3211	PEL-3111+PEL-3211 x 2	PEL-3111+PEL-3211 x 3	PEL-3111+PEL-3211 x 4

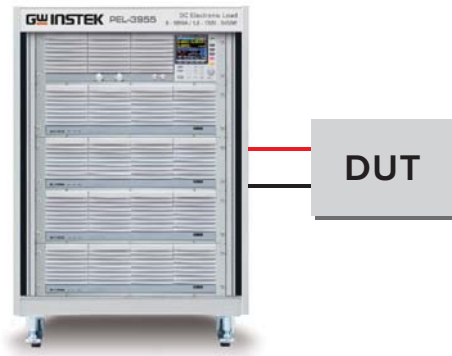
Model	PEL-3322H	PEL-3533H	PEL-3744H	PEL-3955H
Watt	3150W	5250W	7350W	9450W
Current	0-157.5A	0-262.5A	0-367.5A	0-472.5A
Collocation	PEL-3111H+PEL-3211H	PEL-3111H+PEL-3211H x 2	PEL-3111H+PEL-3211H x 3	PEL-3111H+PEL-3211H x 4

Model	PEL-3212	PEL-3323	PEL-3424	PEL-3535
Watt	2100W	3150W	4200W	5250W
Current	0-420A	0-630A	0-840A	0-1050A
Collocation	PEL-3111 x 2	PEL-3111 x 3	PEL-3111 x 4	PEL-3111 x 5

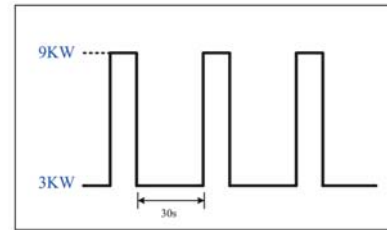
Model	PEL-3212H	PEL-3323H	PEL-3424H	PEL-3535H
Watt	2100W	3150W	4200W	5250W
Current	0-105A	0-157.5A	0-210A	0-262.5A
Collocation	PEL-3111H x 2	PEL-3111H x 3	PEL-3111H x 4	PEL-3111H x 5

O. SUCCESS CASE OF HIGH POWER MODEL IN PARALLEL

Load's Waveform Shown on Right Diagram :



Connection Diagram of Application



Example the Waveform of Load

Some large power supply system has a stable load of 3kW under the normal duty operation and its dynamic load of transient peak will reach 9kW. This system uses PEL-3955 to simulate load patterns so as to assist engineers in analyzing and testing DUT. The procedures:

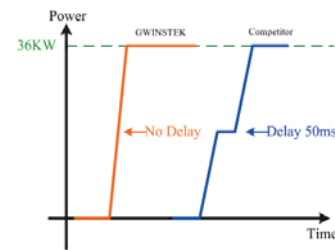
- * Select load mode as CC or CP
- * Select appropriate operational level: Both I & V range in High
- * Select operational mode as Dynamic mode or Sequence
- * Set related load arguments sequentially Level1, Level2, Slew Rate and Duration Time
- * If Sequence is selected, each segment's load condition must be set according to users' requirements
- * Execute load operation

P. HIGH POWER MODEL AUGMENTATION AND PARALLEL

To meet customers' larger sink current, larger power and flexible application of electronic load requirements, the design concept of the PEL-3000 series not only meets the requirement of low power products with high resolution, but also supports the measurement of high power and large current. Single unit of the series can satisfy various load conditions. For higher power

requirements, users can consider purchasing additional Slave control system to collocate the system in parallel through system connection. For operating PEL-3955(1.5~150V/1890A/9.45kW), six units of PEL-3955 are arranged in parallel to reach load capacity of 56.7kW. Bus bar connection can guarantee the safety of large power and large current operations.

Q. LARGER POWER MODEL DYNAMIC SYNCHRONIZATION CONTROL



Waveform of power load

To ensure each Rack can execute synchronized parallel load operation and to simulate the real dynamic load operation. The orange curve of the above diagram shows PEL-3955 executing dynamic synchronized control under external parallel. Comparing with other electronic loads in parallel, the PEL-3000 series does not delay. PEL-3955, with its superior performance and distinct characteristics, has been widely used as test and verification

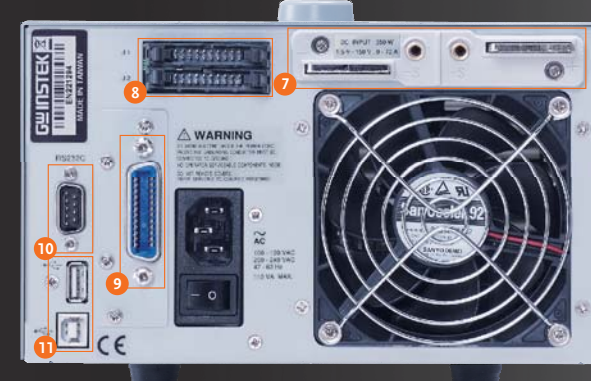
equipment in the power test field. In addition to single unit electronic load of 1kW, larger power models have power outputs including 3kW/5kW/7kW/9kW/18kW/27kW/36kW/54kW, which provide the most important test and verification platform for R&D and QA in the fields of server power system, communications power system, hybrid power pack, solar power module.

PANEL INTRODUCTION



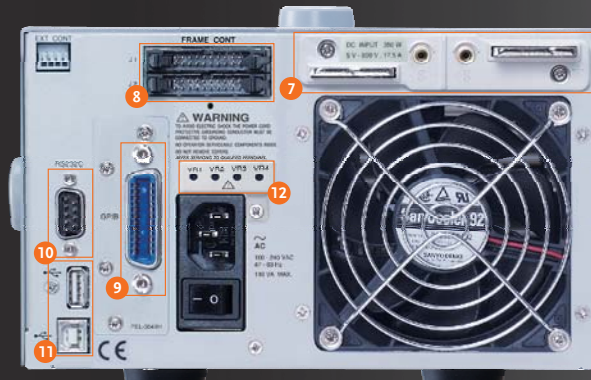
PEL-3000 Series

1. ON / STBY
2. LCD Display
3. Function Keys
4. Operation Key
5. Front Panel Input Terminals
6. I MON, TRIG OUT Terminals



PEL-3000H Series

1. ON / STBY
2. LCD Display
3. Function Keys
4. Operation Key
5. Front Panel Input Terminals
6. V MON, I MON, TRIG OUT Terminals
7. Rear Panel Inputs Terminals
8. Frame Control Ports, J1, J2
9. GPIB/LAN
10. RS232C Port
11. USB Port
12. Variable Resistors



SPECIFICATIONS

Table with columns: Model, PEL-3021, PEL-3041, PEL-3111, PEL-3211. Rows include: Voltage, Current, Power, Input Resistance, Min. Operating Voltage, CONSTANT CURRENT MODE, CR MODE, CONSTANT VOLTAGE MODE, CONSTANT POWER MODE, PARALLEL Mode, SLEW RATE, METER, DYNAMIC MODE, PROTECTION FUNCTION, GENERAL.

SPECIFICATIONS

Table with columns: Model, PEL-3212, PEL-3323, PEL-3424, PEL-3535, PEL-3322, PEL-3533, PEL-3744, PEL-3955. Rows include: Voltage, Current, Power, Input Resistance, Min. Operating Voltage, CONSTANT CURRENT MODE, CR MODE, CONSTANT VOLTAGE MODE, CONSTANT POWER MODE, PARALLEL Mode, SLEW RATE, METER, DYNAMIC MODE, PROTECTION FUNCTION, GENERAL.

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. 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.

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
- PEL-013 Flexible Terminal Cover
- PEL-014 J1/J2 Protection Plug
- Front Terminal Washers
- GTL-255 Frame Link Cable 300mm

OPTIONAL ACCESSORIES

- 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
- PEL-018 LAN Card

FREE DOWNLOAD

- Driver LabView Driver

Specifications subject to change without notice.

PEL-3000/3000HGD1BH

PEL-3000 SERIES



PEL-3322(H)



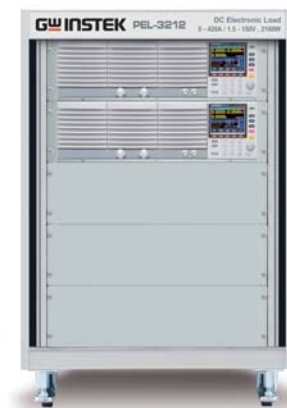
PEL-3533(H)



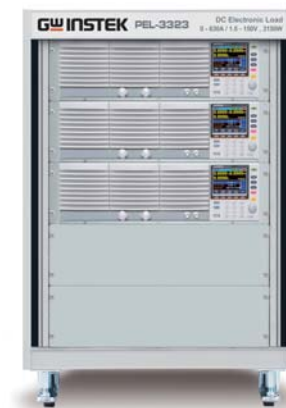
PEL-3744(H)



PEL-3955(H)



PEL-3212(H)



PEL-3323(H)



PEL-3424(H)



PEL-3535(H)

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

PEL-018 LAN Card



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

GTL-120 Test Lead

