



Mess- und Prüftechnik, Die Experten,



### **FEATURES**

- 5-digit Digital Voltage, Current and Power Meter
- Simultaneous Display of Voltage, Current, and Watts
- Short-circuit Time Can be Set During Short-circuit Test
- Automatic Test Function of Overcurrent Protection/Overpower Protection
- The Battery Discharge Test Function Can Set The Discharge Stop Voltage (Vbatt),
   Discharge Capacity (Ah, Wh) and Stop Discharge Time
- Surge Test Can Simulate Boot Overshoot Current and Transient Current From Hot Plugging
- Constant Current, Constant Resistance, Constant Voltage, Constant Power and Dynamic Mode
- Overvoltage, Overcurrent, Overpower, Over Temperature Protection and Reverse Polarity Detection
- Voltage Polarity Display Can be Set to Positive Value ("+") or Negative Value ("-")
- Communications Interface: RS-232, USB











# **PEL-500 Series**







#### **DESCRIPTIONS**

- PEL-500 Series stand-alone load has its own control and display panel, CC / CR / CV / CP/ Dynamic modes, also can be controlled intranet via RS232 and **USB** interface
- SHORT time setting and SHORT\_VH, SHORT\_VL setting function, also can measure Short Voltage and Current
- Dynamic can be simulated under CC, CP mode. The current Rise / Fall slew rate can be adjusted individually
- The additional Short, OCP, OPP, Batt and Surge test function operated by both manual and remote that will be more efficiency and accuracy on Short, OCP, OPP, Batt and Surge testing
- Programmable loading voltage/unloading voltage, GO / NG meter check, Voltage polarity display can be set to positive value ("+") or negative value ("-")That is much advance feature for each different application

# **APPLICATIONS**

- Voltage/Current Source Test
- Transient Response of **Switching Power Supply**
- Constant Voltage Mode for **Current Limiting Test and Battery Simulation**
- Battery Discharge
- R&D, Quality Control
- ATE System
- Production Test

# DC Electronic Load

The PEL-500 series single-channel electronic load has a total of 5 models and provides 0~80V/ 0~500V voltage operating ranges and 250~700W power operating range. The series can be applied to R&D, quality control, ATE system and production test, including voltage source/current source test; switching power supply transient response; constant voltage mode for current limiting test; battery simulation; and battery discharge test.

The PEL-500 series provides a 5-digit digital display of voltage, current and power. Users can monitor the measurement data of the DUT at the same time. In order to facilitate users to evaluate whether the DUT can withstand the overshoot current, the PEL-500 series provides Surge test, which can simulate the boot overshoot current and the transient current from hot plugging. The built-in battery discharge test function can determine the conditions for stopping the discharge according to the test requirements of the DUT, including setting the discharge stop voltage (Vbatt), discharge capacity (AH, WH) and stop discharge time.

Users can set the loading voltage/unloading voltage of the PEL-500 series for testing according to the characteristics of the DUT. When the output voltage of the DUT rises to the loading voltage value, the loading starts. When the output voltage drops to the unloading voltage, the loading ends. Users can use the GO/NG function to pre-set the judgment conditions according to the function and specifications of the DUT. The PEL-500 series will automatically generate the judgment results according to the set judgment conditions during the test.

Under the safety test requirements of the power supply, the PEL-500 series not only provides the Short test function, but also provides the automatic test function of overcurrent protection/overpower protection to simplify users' complicated manual operation and verify the OCP/OPP of the DUT's action points. The generated measurement results help users confirm whether the actual operating action points of the DUT for OCP/OPP are within the measurement regulations.

In addition to the function of providing load current waveforms to the oscilloscope via the BNC output terminal of Imonitor, the PEL-500 series also provides overvoltage, overcurrent, overpower and over temperature protection, and reverse polarity detection. When any one of them generates a trigger action, The PEL-500 series will have protective or reminding measures to protect the PEL-500 series from damage due to abnormal operating ranges.

#### PANEL INSTRUCTIONS



#### **FRONT PANEL**

- 1. LCD Multi-Function Display
- 2. Operation Function Keys
- 3. Test Function Keys
- 4. Knob
- 5. Load Input
- 6. V-sense Terminals
- 7. Imonitor Output
- 8. Power Switch



#### **BACK PANEL**

- 9. RS-232 Port
- 10. Alternate Input Switch
- 11. Heat Sink Fan
- 12. AC Input Socket
- 13. USB Port

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#### PRODUCT DESCRIPTION

#### **Surge Function**

The Surge function allows users to set Surge current, Normal current, Surge Time and Surge STEP according to test requirements. Surge current and Normal current can be set from 0.000A to 50.400A, Surge Time can be set from 10 to 1000ms, and Surge STEP can be set from 1 to 5.



**Surge Current Setting** 

#### **Battery Discharge Test Function**

The battery discharge test function can determine the conditions to stop the discharge according to the test requirements of the DUT, including setting the stop discharge voltage (Vbatt), discharge capacity (AH, WH) and stop discharge time.



**Battery Discharge Setting Processes** 

#### **GO/NG Function**

The GO/NG function is applied to monitor the test result. When the test result exceeds the preset upper/lower limit, the front panel display screen will display NG. Otherwise, GO is displayed. The GO/NG function can edit the working procedures of the test in CC mode/CR mode/CV mode/CP mode. After the test procedures are executed, the test result will be displayed on the front panel display screen, which is represented by GO or NG.

# **DC Electronic Load**

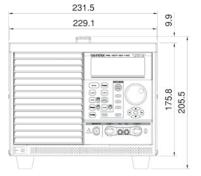
Model		PEL-50	PEL-503-80-50 PEL-50		504-80-70 PEL-504-500-15		PEL-507-80-140		PEL-507-500-30			
INPUT RATINGS												
Power(Watt)		25	250 W		350 W		350 W		700 W		700 W	
Current(Ampere)		5	50 A		70 A		15 A		140 A		30 A	
Voltage(Volt)		8	0 V	80 V		500 V		80 V		500 V		
Min. Operating Voltag	ge	1.0V	@ 50A	1.2V @ 70A		6V @ 15A		0.9V @ 140A		3V @ 30A		
PROTECTIONS	,	1										
Over Power Protection	n(OPP)	=26	52.5W	=36	7.5W	≒367	' 5\X/	±7³	15W/	=7	35W	
Over Current Protection			≒52.5A		≒73.5A		≒15.75A		≒735W		≒31.5A	
Over Voltage Protection	· ,		≒84V		≒84V		=15.75A ≒525V		≒147A		≒51.5A ≒525V	
		_	YES		YES		YES		≒84V YES		TES	
Over Temp. Protection	п(ОТР)		E3				.3	11		<u> </u>	E3	
CC Mode		0.50	4 50 44	0.700	70.04	0.15	754	0.7404	7.40.44	1 00	204	
Range			0~5.04~50.4A		0~7.02~70.2A		0~1.5~15A		0~14.04~140.4A		0~3~30A	
Resolution .		0.084m	0.084mA/0.84mA		0.117mA/1.17mA		0.025mA/0.25mA ±0.1% of (SETTING + RANGE)		0.234mA/2.34mA		0.05mA/ 0.5mA	
Accuracy						±0.1% of (SETT	ING + RANGE)					
CR Mode				T						T.		
Range		0.016~1.	0.016~1.6~96000Ω		0.0114~1.14~68400Ω		0.4~40~2400000Ω		0.0057~0.57~34200Ω		0.2~20~1200000Ω	
Resolution		26.666μΩ/0.0	26.666μΩ/0.010416mSiemens		19μ $\Omega$ /0.014619mSiemens		666.667μΩ/0.416μSiemens		9.5μΩ/29.239μSiemens		333.334μΩ/0.833μSiemens	
Accuracy						±0.2% of (SETT	ING + RANGE)					
CV Mode												
Range		0~8.	0~8.1~81V		0~8.1~81V		0~60~500V		0~8.1~81V		0~60~500V	
Resolution		0.135m	0.135mV/1.35mV		0.135mV/1.35mV		1mV/10mV		0.135mV/1.35mV		/10mV	
Accuracy						±0.05% of (SETT	ING + RANGE)					
CP Mode												
Range			0~25.02~250.2W		0~35.04~350.4W		0~35.04~350.4W		0~70.02~700.2W		~700.2W	
			(Imax=r1:5A, r2:50A)		(Imax=r1:7A, r2:70A)		(Imax=r1:1.5A, r2:15A)		(Imax=r1:14A, r2:140A)		(Imax=r1:3A, r2:30A)	
Resolution		0.417mV	0.417mW/4.17mW		0.584mW/5.84mW		0.584mW/5.84mW		1.167mW/11.67mW		1.17mW/117mW	
Accuracy						±0.5% of (SETT	ING + RANGE)					
Dynamic Mode												
THIGH/TLOW						10μS to 9						
Resolution						0.001/0.01/0.1/1mS		<del>_</del>				
Slew rate	L	0.032	~2A/µs		0.0464~2.90A/μs		1~62.5mA/μs		0.0096~0.6A/μs		imA/μs	
	н	3.2~20	3.2~200mA/μs		4.64~290mA/μs		10~625mA/μs		0.096~6A/μs		i0mA/μs	
Accuracy						±5%±	10μs					
Measurement												
	Range (5 Digital	0~8.1~81V		0~8.1~81V		0~60~500V		0~8.1~81V		0~60	~500V	
Voltage Read Back	Resolution	0.135mV/1.35mV		0.135mV/1.35mV		1mV/10mV		0.135mV/1.35mV		1mV/10mV		
	Accuracy					±0.025% of (READING+ RANGE)						
Current Read Back	Range (5 Digital)	0~5.04~50.4A		0~7.02~70.2A		0~1.5~15A		0~14.04~140.4A		0~3~30A		
	Resolution		0.084mA/0.84mA		0.117mA/1.17mA		0.025mA/0.25mA		0.234mA/2.34mA		0.05mA/ 0.5mA	
		0.084m	nA/0.84mA	0.117mA	,	0.025mA	/0.25mA	0.234mA	/2.34mA	0.05mA	,	
	Accuracy	0.084m	nA/0.84mA	0.117m/	,	0.025mA ±0.1% of (READ		0.234mA	/2.34mA	0.05mA	y	
	Accuracy Range (5 Digital)		250W	0.117mA	350W			0.234mA 70W	/2.34mA 700W	0.05mA 70W	700W	
Power Read Back			· · · · · · · · · · · · · · · · · · ·		·	±0.1% of (READ	ING+ RANGE)				· · · · · · · · · · · · · · · · · · ·	
Power Read Back	Range (5 Digital)	25W	250W	35W	350W	±0.1% of (READ	350W 0.01W	70W	700W	70W	700W	
Power Read Back Surge Test	Range (5 Digital)	25W	250W	35W	350W	±0.1% of (READ 35W 0.001W	350W 0.01W	70W	700W	70W	700W	
	Range (5 Digital) Resolution Accuracy	25W 0.001W	250W	35W 0.001W	350W	±0.1% of (READ 35W 0.001W	350W 0.01W ING+ RANGE)	70W	700W 0.01W	70W 0.001W	700W	
Surge Test	Range (5 Digital) Resolution Accuracy	25W 0.001W	250W 0.01W	35W 0.001W	350W 0.01W	±0.1% of (READ 35W 0.001W ±0.1% of (READ	350W 0.01W ING+ RANGE)	70W 0.001W	700W 0.01W	70W 0.001W	700W 0.01W	
Surge Test Surge & Normal curre	Range (5 Digital) Resolution Accuracy	25W 0.001W	250W 0.01W	35W 0.001W 0~ 10~10	350W 0.01W	±0.1% of (READ 35W 0.001W ±0.1% of (READ	350W 0.01W ING+ RANGE)  5A 00ms	70W 0.001W	700W 0.01W 40A	70W 0.001W 0~10~1	700W 0.01W	
Surge Test Surge & Normal curre	Range (5 Digital) Resolution Accuracy	25W 0.001W	250W 0.01W	35W 0.001W 0~ 10~10	350W 0.01W	±0.1% of (READ 35W 0.001W ±0.1% of (READ	350W 0.01W ING+ RANGE)  5A 00ms	70W 0.001W 0-1 10~10	700W 0.01W 40A	70W 0.001W 0~10~1	700W 0.01W	
Surge Test Surge & Normal curre Surge time Surge step	Range (5 Digital) Resolution Accuracy	25W 0.001W	250W 0.01W	35W 0.001W 0~10~10	350W 0.01W	±0.1% of (READ 35W 0.001W ±0.1% of (READ	350W 0.01W ING+ RANGE)  5A 00ms 5	70W 0.001W 0-1 10~10	700W 0.01W 40A 000ms	70W 0.001W	700W 0.01W	
Surge Test Surge & Normal curre Surge time Surge step Battery Discharge T	Range (5 Digital) Resolution Accuracy	25W 0.001W	250W 0.01W -50A 000ms	35W 0.001W 0~10~10	350W 0.01W 770A 000ms	±0.1% of (READ 35W 0.001W ±0.1% of (READ 0-1 10~10	350W 0.01W ING+ RANGE)  5A 000ms 5	70W 0.001W 0-1 10-10	700W 0.01W 40A 40Oms -5	70W 0.001W 01 101: 1	700W 0.01W 30A 000ms	
Surge Test Surge & Normal curre Surge time Surge step Battery Discharge T	Range (5 Digital) Resolution Accuracy	25W 0.001W	250W 0.01W -550A 0000ms ~5	35W 0.001W 0~10~10	350W 0.01W 770A 000ms 5	±0.1% of (READ 35W 0.001W ±0.1% of (READ 0-1 10-10 1-	350W 0.01W ING+ RANGE)  55A 000ms 5	70W 0.001W 0-01 10-10 1-	700W 0.01W 40A 40Oms -5	70W 0.001W 01 101: 1	700W 0.01W 30A 0000ms5	
Surge Test Surge & Normal curre Surge time Surge step Battery Discharge T UVP Time	Range (5 Digital) Resolution Accuracy	25W 0.001W	250W 0.01W -550A 0000ms ~5	35W 0.001W 0~10~10	350W 0.01W 770A 000ms 5	±0.1% of (READ 35W 0.001W ±0.1% of (READ 10-10 1- 0-55	350W 0.01W ING+ RANGE)  55A 000ms 5	70W 0.001W 0-01 10-10 1-	700W 0.01W 40A 40Oms -5	70W 0.001W 01 101: 1	700W 0.01W 30A 0000ms5	
Surge Test Surge & Normal curre Surge time Surge step Battery Discharge T UVP Time Capacity Others	Range (5 Digital) Resolution Accuracy	25W 0.001W	250W 0.01W -50A 0000ms 5 -81V 999 Sec	35W 0.001W 0~10~10 1.	350W 0.01W 770A 000ms 5	±0.1% of (READ 35W 0.001W ±0.1% of (READ 0-1 10-10 1~ 0-56 1~9999.9AH/6	350W 0.01W 1NG+ RANGE)  5A 000ms 5  00V 99 Sec 0.1~19999.9WH	70W 0.001W 0-1 10-10 1- 0-8	700W 0.01W 40A 40Oms -5	70W 0.001W 0-0-110-11 1 0-1:	700W 0.01W 30A 0000ms 5	
Surge Test Surge & Normal curre Surge time Surge step Battery Discharge T UVP Time Capacity Others Load ON Voltage	Range (5 Digital) Resolution Accuracy	25W 0.001W	250W 0.01W -50A 0000ms 5 -81V 999 Sec	35W 0.001W 0~10~10	350W 0.01W 770A 000ms 5	±0.1% of (READ 35W 0.001W ±0.1% of (READ 0-1 10-10 1- 0-5( 1~9999.9AH/0 0.4~1	350W 0.01W 1NG+ RANGE)  5A 000ms 55 00V 99 Sec 0.1~19999.9WH	70W 0.001W 0-01 10-10 1-	700W 0.01W 40A 40Oms -5	70W 0.001W 0-0-110-11 1 0-1:	700W 0.01W 30A 0000ms5	
Surge Test Surge & Normal curre Surge time Surge step Battery Discharge T UVP Time Capacity Others Load ON Voltage Accuracy	Range (5 Digital) Resolution Accuracy	25W 0.001W	250W 0.01W -50A 000ms 5 -81V 999 Sec	35W 0.001W 0~10~10 1.	350W 0.01W 770A 000ms 5	±0.1% of (READ 35W 0.001W ±0.1% of (READ 0-1 10-10 1~ 0-56 1~9999.9AH/6	350W 0.01W ING+ RANGE)  5A 000ms 55 000V 99 Sec 0.1~19999.9WH	70W 0.001W 0-1 10-10 1- 0-8	700W 0.01W 40A 40A 600ms -5	70W 0.001W 0-0-110-11 1 0-11-999	700W 0.01W 30A 0000ms 5	
Surge Test Surge & Normal curre Surge time Surge step Battery Discharge T UVP Time Capacity Others Load ON Voltage Accuracy Load OFF Voltage	Range (5 Digital) Resolution Accuracy	25W 0.001W	250W 0.01W -50A 000ms 5 -81V 999 Sec	35W 0.001W 0~ 10~10 1. 0~ 1~999	350W 0.01W 770A 000ms 5	±0.1% of (READ  35W  0.001W  ±0.1% of (READ  0-1  10~10  1~  0~5(  1~9999.9AH//  0.4~1  1% of (SETTIN	350W 0.01W ING+ RANGE)  5A 000ms 55  00V 99 Sec 0.1~19999.9WH  00V IG+ RANGE)	70W 0.001W 0-1 10-1C 1- 0-8 1-999	700W 0.01W 40A 40A 600ms -5	70W 0.001W 0-0-110-11 1 0-11-999	700W 0.01W 30A 0000ms5 500V 999 Sec	
Surge Test Surge & Normal curre Surge time Surge step Battery Discharge T UVP Time Capacity Others Load ON Voltage Accuracy Load OFF Voltage Accuracy	Range (5 Digital) Resolution Accuracy ent	25W 0.001W 0- 10-1 1	250W 0.01W 0.01W -50A 000ms ~5 -81V 999 Sec 0.1-	35W 0.001W 0~10~10 1.~999	350W 0.01W 70A 70A 70Oms -5	±0.1% of (READ  35W  0.001W  ±0.1% of (READ  10~10  1~  0~5( 1~9999.9AH//  0.4~1  1% of (SETTIN  0.05% of (SETTIN	350W 0.01W ING+ RANGE)  5A 000ms 5.5  00V 99 Sec 0.1~19999.9WH  00V IG+ RANGE)	70W 0.001W 0-1 10-10 1- 0-2 1-999 0.1-	700W 0.01W 40A 40A 000ms -5 31V 99 Sec	70W 0.001W 0-0-10-11 1 1-999	700W 0.01W 30A 0000ms ~5 500V 999 Sec	
Surge Test Surge & Normal curre Surge time Surge step Battery Discharge T UVP Time Capacity Others Load ON Voltage Accuracy Load OFF Voltage Accuracy Imonitor (Non-isolates)	Range (5 Digital) Resolution Accuracy ent	25W 0.001W 0- 10-1 1	250W 0.01W -50A 000ms 5 -81V 999 Sec	35W 0.001W 0~10~10 1.~999	350W 0.01W 770A 000ms 5	±0.1% of (READ  35W 0.001W ±0.1% of (READ  10~10  1~  0~5( 1~9999.9AH/ii  1% of (SETTIN  0.05% of (SETTIN	350W 0.01W ING+ RANGE)  5A 000ms 5.5  00V 99 Sec 0.1~19999.9WH  00V IG+ RANGE)  00V IG+ RANGE)	70W 0.001W 0-1 10-1C 1- 0-8 1-999	700W 0.01W 40A 40A 000ms -5 31V 99 Sec	70W 0.001W 0-0-10-11 1 1-999	700W 0.01W 30A 0000ms5 500V 999 Sec	
Surge Test Surge & Normal curre Surge time Surge step Battery Discharge T UVP Time Capacity Others Load ON Voltage Accuracy Load OFF Voltage Accuracy Imonitor (Non-isolated	Range (5 Digital) Resolution Accuracy ent	25W 0.001W 0- 10-1 1	250W 0.01W 0.01W -50A 000ms ~5 -81V 999 Sec 0.1-	35W 0.001W 0~10~10 1.~999	350W 0.01W 70A 70A 70Oms -5	±0.1% of (READ  35W 0.001W ±0.1% of (READ  10~10  1~  0~5( 1~9999.9AH//  0.4~1  1% of (SETTIN 0.05% of (SETTI) Full sca	350W 0.01W ING+ RANGE)  5A 000ms 55  000V 09 Sec 0.1~19999.9WH  000V ING+ RANGE)  AVV ING+ RANGE)	70W 0.001W 0-1 10-10 1- 0-2 1-999 0.1-	700W 0.01W 40A 40A 000ms -5 31V 99 Sec	70W 0.001W 0-0-10-11 1 1-999	700W 0.01W 30A 0000ms ~5 500V 999 Sec	
Surge Test Surge & Normal curre Surge time Surge step Battery Discharge T UVP Time Capacity Others Load ON Voltage Accuracy Load OFF Voltage Accuracy Imonitor (Non-isolated Current Monitor Accuracy	Range (5 Digital) Resolution Accuracy ent	25W 0.001W 0- 10-1 1 0- 1-999	250W 0.01W -50A 000ms ~5 -81V 999 Sec 0.1-	35W 0.001W 0	350W 0.01W 70A 0.000ms5 881V 999 Sec	±0.1% of (READ  35W  0.001W  ±0.1% of (READ  0.10 of (READ  10-10  1-  0.5% of (SETTI  0.05% of (SETTI  Full sca  0.5% of (SETTI	350W 0.01W ING + RANGE)  5A 000ms 55  000V 09 Sec 0.1~19999.9WH 000V IG + RANGE)  1NG + RANGE)  2NG + RANGE)  2NG + RANGE)  2NG + RANGE)  2NG + RANGE)	70W 0.001W 0-1 10-10 1- 0-2 1-999	700W 0.01W 40A 40A 000ms -5 81V 99 Sec	70W 0.001W 0-0-10-11 1 1-999 0.4-	700W 0.01W 30A 0000ms ~5 5000V 999 Sec 999 Sec 900V	
Surge Test Surge & Normal curre Surge time Surge step Battery Discharge T UVP Time Capacity Others Load ON Voltage Accuracy Load OFF Voltage Accuracy Imonitor (Non-isolated Current Monitor Accuracy Typical Short Resistan	Range (5 Digital) Resolution Accuracy ent	25W 0.001W 0- 10-1 1 0- 1-999	250W 0.01W -50A 000ms ~5 -81V 999 Sec 0.1- 0~	35W 0.001W 0-001W 10-11 1. 0 1~999 -25V 25V	350W 0.01W 70A 0000ms 5 81V 999 Sec	±0.1% of (READ  35W  0.001W  ±0.1% of (READ  0.10 of (READ  10-10  1-  0.50 of (SETTI  0.05% of (SETTI  Full sca  0.5% of (SETTI  0.36	350W 0.01W ING+ RANGE)  5A 000ms 5  000V 99 Sec 0.1~19999.9WH 00V IG+ RANGE) 00V ING+ RANGE) A/V Ie: 10V NG+ RANGE) 7Ω	70W 0.001W 0-1 10-10 1- 0-2 1-999 0.1- 0-2	700W 0.01W 40A 000ms -5 81V 99 Sec	70W 0.001W 0-0-10-11 1 1-999 0.4-	700W 0.01W 30A 0000ms ~5 5000V 999 Sec 1000V	
Surge Test Surge & Normal curre Surge time Surge step Battery Discharge T UVP Time Capacity Others Load ON Voltage Accuracy Load OFF Voltage Accuracy Imonitor (Non-isolated Current Monitor Accuracy Typical Short Resistan	Range (5 Digital) Resolution Accuracy ent	25W 0.001W 0- 10-1 1 0- 1-999	250W 0.01W -50A 000ms ~5 -81V 999 Sec 0.1-	35W 0.001W 0-001W 10-11 1. 0 1~999 -25V 25V	350W 0.01W 70A 0.000ms5 881V 999 Sec	±0.1% of (READ  35W  0.001W  ±0.1% of (READ  0-1  10-10  1-  0-5(  1-9999.9AH/  0.4-1  1% of (SETTII  0.05% of (SETTI  5.5 / Full sca  0.5% of (SETTI  0.366	350W 0.01W ING + RANGE)  5A 000ms 55 000V 09 Sec 0.1~19999.9WH 000V ING + RANGE)  370 NG + RANGE)  370 NG + RANGE)  370 NG + RANGE)  370 A	70W 0.001W 0-1 10-10 1- 0-2 1-999	700W 0.01W 40A 000ms -5 81V 99 Sec	70W 0.001W 0-0-10-11 1 1-999 0.4-	700W 0.01W 30A 0000ms ~5 5000V 999 Sec 1000V	
Surge Test Surge & Normal curre Surge time Surge step Battery Discharge T UVP Time Capacity Others Load ON Voltage Accuracy Load OFF Voltage Accuracy Imonitor (Non-isolated Current Monitor Accuracy Typical Short Resistan Max. short Current Power input	Range (5 Digital) Resolution Accuracy ent	25W 0.001W 0- 10-1 1 0- 1-999	250W 0.01W -50A 000ms ~5 -81V 999 Sec 0.1- 0~	35W 0.001W 0-001W 10-11 1. 0 1~999 -25V 25V	350W 0.01W 70A 0000ms 5 81V 999 Sec	±0.1% of (READ  35W  0.001W  ±0.1% of (READ  0-1  10-10  1~  0-5(  1~9999.9AH/  0.4~1  1% of (SETTIN  0-1(  0.05% of (SETTI  5.5 of (SETTI  0.366  155  115/230 Vac±	350W 0.01W ING+ RANGE)  5A 000ms 5  000V 99 Sec 0.1~19999.9WH  00V IG+ RANGE)  1NG+ RANGE)  1NG+ RANGE)  2NOV 1NG+ RANGE)	70W 0.001W 0-1 10-10 1- 0-2 1-999 0.1- 0-2	700W 0.01W 40A 000ms -5 81V 99 Sec	70W 0.001W 0-0-10-11 1 1-999 0.4-	700W 0.01W 30A 0000ms ~5 5000V 999 Sec 1000V	
Surge Test Surge & Normal curre Surge time Surge step Battery Discharge T UVP Time Capacity Others Load ON Voltage Accuracy Load OFF Voltage Accuracy Imonitor (Non-isolated Current Monitor Accuracy Typical Short Resistan Max. short Current Power input Interface (Standard)	Range (5 Digital) Resolution Accuracy ent	25W 0.001W 0- 10-1 1 0- 1-999	250W 0.01W -50A 000ms ~5 -81V 999 Sec 0.1- 0~	35W 0.001W 0-0-10-11 1. 01-25V 25V 7.02	350W 0.01W  70A 000ms -5 81V 99 Sec	±0.1% of (READ  35W  0.001W  ±0.1% of (READ  0-1  10-10  1-  0-5(  1-9999.9AH/  0.4-1  1% of (SETTII  0.05% of (SETTI  5.5 / Full sca  0.5% of (SETTI  0.366	350W 0.01W ING+ RANGE)  5A 000ms 5  000V 99 Sec 0.1~19999.9WH  00V IG+ RANGE)  1NG+ RANGE)  1NG+ RANGE)  2NOV 1NG+ RANGE)	70W 0.001W 0-1 10-10 1- 0-2 1-999 0.1- 0-2	700W 0.01W 40A 40A 600ms -5 31V 99 Sec 25V 4 A/V 53Ω 0A	70W 0.001W 0-001W 01 10-1: 1 -999 0.4-	700W 0.01W 30A 0000ms ~5 5000V 999 Sec 1000V	
Surge Test Surge & Normal curre Surge step Battery Discharge T UVP Time Capacity Others Load ON Voltage Accuracy Load OFF Voltage Accuracy Imonitor (Non-isolated Current Monitor Accuracy Typical Short Resistant Max. short Current Power input Interface (Standard) Power Consumption	Range (5 Digital) Resolution Accuracy ent	25W 0.001W 0- 10-1 1 0- 1-999	250W 0.01W -50A 0000ms ~5 -81V 999 Sec 0.1- 0~ 4 A/V	35W 0.001W 0~ 10~10 1. 0~ 1~999 -25V 25V 7.02	350W 0.01W 770A 0000ms5 81V 99 Sec	±0.1% of (READ  35W  0.001W  ±0.1% of (READ  0-11  10~10  1~  0-50  1~9999.9AH/  0.4~1  1% of (SETTIN  0.5% of (SETIN  0.5% of (SET	350W 0.01W ING+ RANGE) 350W 0.01W ING+ RANGE) 55A 000ms 55 000V 99 Sec 0.1~19999.9WH 000V IG+ RANGE) 00V IG+ RANGE) 00V ING+ RANGE) 70 A 00%, 50/60Hz RS232	70W 0.001W 0-1 10-10 1-1 0-2 14.04 0.000 14	700W 0.01W 40A 40A 000ms -5 31V 99 Sec 25V 4 A/V 53Ω 0A	70W 0.001W  0	700W 0.01W 30A 0000ms ~5 5000V 1999 Sec 1000V 87Ω 00A	
Surge Test Surge & Normal curre Surge time Surge step Battery Discharge T UVP Time Capacity Others Load ON Voltage Accuracy Load OFF Voltage Accuracy Imonitor (Non-isolated Current Monitor Accuracy Typical Short Resistan Max. short Current Power input Interface (Standard)	Range (5 Digital) Resolution Accuracy ent	25W 0.001W 0-10-1 1 1-99! 5.0.	250W 0.01W -50A 000ms ~5 -81V 999 Sec 0.1- 0~	35W 0.001W  0~ 10~10 1.  1.  0~ 1~999  -25V  7.02  0.01 7.  40 205 x 123	350W 0.01W  70A 000ms -5 81V 99 Sec	±0.1% of (READ  35W  0.001W  ±0.1% of (READ  0-1  10-10  1~  0-5(  1~9999.9AH/  0.4~1  1% of (SETTIN  0-1(  0.05% of (SETTI  5.5 of (SETTI  0.366  155  115/230 Vac±	350W 0.01W ING+ RANGE)  55A 000ms 5  000V 99 Sec 0.1~19999.9WH 00V IG+ RANGE) 00V ING+ RANGE) 7Ω A 10%, 50/60Hz 82322 x 477mm	70W 0.001W 0.001W 0-1 10-10 1-1 10-10 1-1 1-1 1-1 10-10 1-1 1-1	700W 0.01W 40A 40A 000ms -5 31V 99 Sec 25V 4 A/V 53Ω 0A	70W 0.001W  0-0-10-11 1  0-2 1-999 0.4- 0.0 3 VA 205 x 231	700W 0.01W 30A 0000ms ~5 5000V 999 Sec	

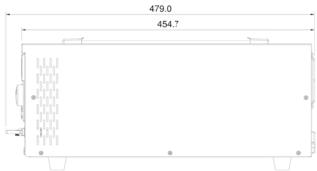


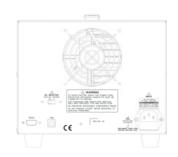


Mess- und Prüftechnik, Die Experten,

## DIMENSIONS

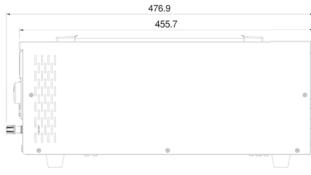






PEL-507-80-140 / PEL-507-500-30





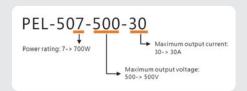


PEL-503-80-50 / PEL-504-80-70 / PEL-504-500-15

### ORDERING INFORMATION

PEL-503-80-50 80V/50A/250W DC Electronic Load PEL-504-80-70 80V/70A/350W DC Electronic Load PEL-504-500-15 500V/15A/350W DC Electronic Load PEL-507-80-140 80V/140A/700W DC Electronic Load

PEL-507-80-140 80V/140A/700W DC Electronic Load PEL-507-500-30 500V/30A/700W DC Electronic Load



#### **OPTIONAL ACCESSORIES**

**GTL-238** RS-232 Cable, 9-pin, M-F Type, 1000mm USB Cable, USB 2.0, A-B Type, 1200mm

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

**GTL-238** RS-232 Cable, 9-pin, M-F Type, 1000mm



Änderungen und Irrtümer vorbehalten. dataTec 11-07-2022 | © GW Instek: BH\_PEL-500\_E\_202205 | 05/2022