

	PEL-2040A PEL-2040B	PEL-2041A PEL-2041B	PEL-2020A(100Wx2) PEL-2020B(100Wx2)	PEL-2030A(250W/30W) PEL-2030B(250W/30W)						
CHANNEL	one channel		L/R	L/R	Left	Right	Right			
RANGE	LOW	HIGH	LOW	HIGH	LOW	HIGH	N/A	LOW	HIGH	
POWER	350W		350W		100W	100W	30W	250W	250W	
CURRENT	0~7A	0~70A	0~1A	0~10A	0~2A	0~20A	0~5A	0~4A	0~40A	
VOLTAGE	0~80V		0~500V		0~80V		0~80V			
MIN.OPERATING VOLTAGE(dc)(Typ.)	0.4V at 7A	0.8V at 70A	0.4V at 1A	0.8V at 10A	0.4V at 2A	0.8V at 20A	0.8V at 5A	0.4V at 4A	0.8V at 40A	
	0.2V at 3.5A	0.4V at 35A	0.2V at 0.5A	0.4V at 5A	0.2V at 1A	0.4V at 10A	0.4V at 2.5A	0.2V at 2A	0.4V at 20A	
STATIC MODE										
CONSTANT CURRENT MODE										
	Operating Range	0~7A	0~70A	0~1A	0~10A	0~2A	0~20A	0~5A	0~4A	0~40A
	Setting Range	0~7.14A	0~71.4A	0~1.02A	0~10.2A	0~2.04A	0~20.4A	0~5.1A	0~4.08A	0~40.8A
	Resolution	0.2mA	2mA	0.05mA	0.5mA	0.1mA	1mA	0.125mA	0.1mA	1mA
	Accuracy	±(0.1%set + 0.1%F.S)	±(0.1%set + 0.2%F.S)	±(0.1%set + 0.1%F.S)	±(0.1%set + 0.2%F.S)	±(0.1%set + 0.1%F.S.)	±(0.1%set + 0.2%F.S.)	±(0.1%set + 0.1%F.S)	±(0.1%set + 0.1%F.S)	±(0.1%set + 0.2%F.S)
CONSTANT RESISTANCE MODE										
	Operating Range	0.025Ω~100Ω	1.25Ω~5KΩ(350W/125V)	0.075Ω~300Ω	0.3Ω~1.2KΩ(30W/16V)	0.0375Ω~150Ω				
		1.25Ω~5K(350W/80V)	50Ω~200K(350W/500V)	3.75Ω~15K(100W/80V)	15Ω~60K(30W/80V)	1.875Ω~7.5K(250W/80V)				
	Setting Range	0.025Ω~100Ω	1.25Ω~5KΩ(350W/125V)	0.075Ω~300Ω	0.3Ω~1.2KΩ(30W/16V)	0.0375Ω~150Ω				
		1.25Ω~5K(350W/80V)	50Ω~200K(350W/500V)	3.75Ω~15K(100W/80V)	15Ω~60K(30W/80V)	1.875Ω~7.5K(250W/80V)				
	Resolution	1mS(350W/16V)	20uS(350W/125V)	0.333mS(100W/16V)	83.333uS(30W/16V)	0.666mS(250W/16V)				
		20 uS(350W/80V)	0.5uS(350W/500V)	6.667uS(100W/80V)	1.666uS(30W/80V)	13.333uS(250W/80V)				
	Accuracy	100Ω : ±(0.2%set + 0.1S)	5KΩ : ±(0.2%set + 0.02S)	300Ω : ±(0.2%set + 0.1S)	1.2KΩ : ±(0.2%set + 0.1S)	150Ω : ±(0.2%set + 0.1S)				
		With ≥ 2.5V at input	5KΩ: ±(0.1%set + 0.01S)	200KΩ: ±(0.1%set +	15KΩ: ±(0.1%set + 0.01S)	60KΩ: ±(0.1%set + 0.01S)	7.5KΩ: ±(0.1%set +			
CONSTANT VOLTAGE + CONSTANT CURRENT MODE										
	Operating Range	1~80V	2.5~500V	1~80V	1~80V	1~80V				

	Setting Range	0~81.6V		0~510V		0~81.6V		0~81.6V		0~81.6V	
	Resolution	2mV		10mV		2mV		2mV		2mV	
	Accuracy	±(0.05%set + 0.1%F.S.)		±(0.05%set + 0.1%F.S.)		±(0.05%set + 0.1%F.S.)		±(0.05%set + 0.1%F.S.)		±(0.05%set + 0.1%F.S.)	
	Current Setting Range	0~70A		0~10A		0~20A		0~5A		0~40A	
	Resolution	2mA		0.5mA		1mA		0.125mA		1mA	
	Accuracy	±(0.1%set + 0.2%F.S.)		±(0.1%set + 0.2%F.S.)		±(0.1%set + 0.2%F.S.)		±(0.1%set + 0.2%F.S.)		±(0.1%set + 0.2%F.S.)	
CONSTANT POWER MODE											
	Operating Range*	1~35W	1~350W	1~35W	1~350W	1~10W	1~100W	1~30W	1~25W	1~250W	
	Setting Range	0~35.7W	0~357W	0~35.7W	0~357W	0~10.2W	0~102W	0~30.6W	0~25.5W	0~255W	
	Resolution	1mW	10mW	1mW	10mW	1mW	10mW	1mW	1mW	10mW	
	Accuracy	±(0.5%set + 0.5%F.S.)	±(0.5%set + 0.5%F.S.)	±(0.5%set + 0.2%F.S.)	±(0.5%set + 0.5%F.S.)	±(0.5%set + 0.5%F.S.)	±(0.5%set + 0.5%F.S.)	±(0.5%set + 0.5%F.S.)	±(0.5%set + 0.5%F.S.)	±(0.5%set + 0.5%F.S.)	
DYNAMIC MODE											
	T1&T2	0.025mS ~ 10mS / Res :		0.025mS ~ 10mS / Res :		0.025mS ~ 10mS / Res :		0.025mS ~ 10mS / Res : 1uS			
		10mS ~ 30S / Res : 1mS		10mS ~ 30S / Res : 1mS		10mS ~ 30S / Res : 1mS		10mS ~ 30S / Res : 1mS			
	Accuracy	1uS / 1mS ± 100ppm		1uS / 1mS ± 100ppm		1uS / 1mS ± 100ppm		1uS / 1mS ± 100ppm			
CONSTANT CURRENT MODE											
	Slew Rate	0.001 ~ 0.28A/uS	0.01 ~ 2.8A/uS	0.16 ~ 40mA/uS	1.6 ~ 400mA/uS	0.32 ~ 80mA/uS	3.2 ~ 800mA/uS	0.8 ~ 200mA/uS	0.64 ~ 160mA/uS	6.4 ~ 1600mA/uS	
	Slew Rate Resolution	0.001A/uS	0.01A/uS	0.16mA/uS	1.6mA/uS	0.32mA/uS	3.2mA/uS	0.8mA/uS	0.64mA/uS	6.4mA/uS	
	Slew Rate Accuracy of setting	±(10%+ 15us)	±(10%+ 15us)	±(10%+ 15us)	±(10%+ 15us)	±(10%+ 15us)	±(10%+ 15us)	±(10%+ 15us)	±(10%+ 15us)	±(10%+ 15us)	
	Current Setting Range	0~7A	0~70A	0~1A	0~10A	0~2A	0~20A	0~5A	0~4A	0~40A	
	Current Resolution	0.2mA	2mA	0.05mA	0.5mA	0.1mA	1mA	0.125mA	0.1mA	1mA	
	Current Accuracy	±0.4% F.S.		±0.4% F.S.		±0.4% F.S.		±0.4% F.S.			
CONSTANT RESISTANCE MODE											
	Slew Rate	0.001 ~ 0.28A/uS	0.01 ~ 2.8A/uS	0.16 ~ 40mA/uS	1.6 ~ 400mA/uS	0.32 ~ 80mA/uS	3.2 ~ 800mA/uS	0.8 ~ 200mA/uS	0.64 ~ 160mA/uS	6.4 ~ 1600mA/uS	

	Slew Rate Resolution	0.001A/uS	0.01A/uS	0.16mA/uS	1.6mA/uS	0.32mA/uS	3.2mA/uS	0.8mA/uS	0.64mA/uS	6.4mA/uS	
	Slew Rate Accuracy of setting	±(10%+15us)	±(10%+15us)	±(10%+15us)	±(10%+15us)	±(10%+15us)	±(10%+15us)	±(10%+15us)	±(10%+15us)	±(10%+15us)	
	Resistance Setting Range	0.025Ω~100Ω		1.25Ω~5KΩ(350W/125V)		0.075Ω~300Ω		0.3Ω~1.2KΩ(30W/16V)		0.0375Ω~150Ω	
		1.25Ω~5K(350W/80V)		50Ω~200K(350W/500V)		3.75Ω~15K(100W/80V)		15Ω~60K(30W/80V)		1.875Ω~7.5K(250W/80V)	
	Resistance Resolution	1mS(350W/16V)		20uS(350W/125V)		0.333mS(100W/16V)		83.333uS(30W/16V)		0.666mS(250W/16V)	
		20 uS(350W/80V)		0.5uS(350W/500V)		6.667uS(100W/80V)		1.666uS(30W/80V)		13.333uS(250W/80V)	
	Resistance Resolution	100Ω : ±(0.5%set + 0.1S)		5KΩ : ±(0.5%set + 0.02S)		300Ω : ±(0.5%set + 0.1S)		1.2KΩ : ±(0.5%set + 0.1S)		150Ω : ±(0.5%set + 0.1S)	
	Resistance Accuracy	5KΩ: ±(0.5%set + 0.01S)		200KΩ: ±(0.5%set +		15KΩ: ±(0.5%set + 0.01S)		60KΩ: ±(0.5%set + 0.01S)		7.5KΩ: ±(0.5%set +	
MEASUREMENT											
VOLTAGE READBACK											
	Range	0~16V	0~80V	0~125V	0~500V	0~16V	0~80V	0~16V	0~80V	0~16V	0~80V
	Resolution	0.32mV	1.6mV	2.5mV	10mV	0.32mV	1.6mV	0.32mV	1.6mV	0.32mV	1.6mV
	Accuracy	±(0.025%set + 0.025% F.S.)		±(0.025%set + 0.025% F.S.)		±(0.025%set + 0.025% F.S.)		±(0.025%set + 0.025% F.S.)			
CURRENT READBACK											
	Range	0~7A	0~70A	0~1A	0~10A	0~2A	0~20A	0~5A	0~4A	0~40A	
	Resolution	0.14mA	1.4mA	0.02mA	0.2mA	0.04mA	0.4mA	0.1mA	0.08mA	0.8mA	
	Accuracy	±(0.05%set + 0.05% F.S.)		±(0.05%set + 0.05% F.S.)		±(0.05%set + 0.05% F.S.)		±(0.05%set + 0.05% F.S.)			
POWER READBACK											
	Range	0~35W	0~350W	0~35W	0~350W	0~10W	0~100W	0~30W	0~25W	0~250W	
	Accuracy	±(0.1%set + 0.1% F.S.*1)		±(0.1%set + 0.1% F.S.*1)		±(0.1%set + 0.1% F.S.*1)		±(0.1%set + 0.1% F.S.*1)		±(0.1%set + 0.1% F.S.*1)	
NOTE : *1 : Power F.S. = Vrange F.S. x Irange F.S.											
PROTECTIVE											
Over Power Protection											
	Range	1~357W		1~357W		1~102W		1~30.6W		1~255W	
	Resolution	1.75W		1.75W		0.5W		0.15W		1.25W	
	Accuracy	±(2%set + 0.25%F.S)		±(2%set + 0.25%F.S)		±(2%set + 0.25%F.S)		±(2%set + 0.25%F.S)		±(2%set + 0.25%F.S)	

Over Current Protection											
	Range	0~71.4A	0~10.2A	0~20.4A	0~5.1A	0~40.8A					
	Resolution	0.175A	0.025A	0.05A	0.0125A	0.1A					
	Accuracy	±(2%set + 0.25%F.S)	±(2%set + 0.25%F.S)	±(2%set + 0.25%F.S)	±(2%set + 0.25%F.S)	±(2%set + 0.25%F.S)					
Over Voltage Protection											
	Range	1~81.6V	1~510V	1~81.6V	1~81.6V	1~81.6V					
	Resolution	0.2V	1.25V	0.2V	0.2V	0.2V					
	Accuracy	±(2%set + 0.25%F.S)	±(2%set + 0.25%F.S)	±(2%set + 0.25%F.S)	±(2%set + 0.25%F.S)	±(2%set + 0.25%F.S)					
	Over Temperature	≒85℃	≒85℃	≒85℃		≒85℃					
Rated Power Protection											
	Value	385W	385W	110W	33W	275W					
	Accuracy	±2%set	±2%set	±2%set	±2%set	±2%set					
GENERAL											
SHORT CIRCUIT											
	Current(CC)	≒7.7/7A	≒77/70A	≒1.1/1A	≒11/10A	≒2.2/2A	≒22/20A	≒5.5/5A	≒4.4/4A	≒44/40A	
	Voltage(CV)	0V	0V	0V	0V	0V	0V	0V	0V	0V	
	Resistance(CR)	≒1.25Ω	≒0.025Ω	≒50Ω	≒1.25Ω	≒3.75Ω	≒0.075Ω	≒15Ω	≒0.3Ω	≒1.875Ω	≒0.0375Ω
INPUT RESISTANCE(LOAD OFF)		500KΩ(Typical)		500KΩ(Typical)		500KΩ(Typical)		500KΩ(Typical)			
POWER SOURCE		AC100V~230V±10%; 50Hz/60Hz±2Hz									
WEIGHT		APPROX. 3.8kg									
DIMENSIONS & WEIGHT(PEL-		272(W) X 200(H) X 581(D) mm; Approx. 16.0kg(Full)				272(W) X 200(H) X 581(D) mm; Approx. 16.1kg(Full modules)					
DIMENSIONS & WEIGHT(PEL-		435(W) X 200(H) X 581(D) mm; Approx. 28.4kg(Full)				435(W) X 200(H) X 581(D) mm; Approx. 24.8kg(Full modules)					

ORDERING INFORMATION

PEL-2020A/PEL-2020B Dual Channel Module, (0~80V, 0~20A, 100W) x2

PEL-2030A / PEL-2030B Dual Channel Module, (1~80V, 0~5A, 30W)+(1~80V, 0~40A, 250W)

PEL-2040A / PEL-2040B Single Channel Module, (0~80V, 0~70A, 350W)
PEL-2041A / PEL-2041B Single Channel Module, (0~500V, 0~10A, 350W)
PEL-2004A 4-Slot Programmable DC Electronic Load Mainframe
PEL-2002A 2-Slot Programmable DC Electronic Load Mainframe

note: Load module cannot be used without a mainframe

ACCESSORIES:

PEL-2002A/2004A

User Manual x1, Power Cord x1

PEL-2020A/2030A/2040A/2041A

PEL-2020B/2030B/2040B/2041B

GTL-120 Test Lead x 1, GTL-121 Sense Lead x 1

PEL-003 x 3 (PEL-2004A); PEL-003 x 1(PEL-2002A)

OPTIONAL ACCESSORIES

PEL-001 GPIB Card

PEL-002 PEL-2000 Series Rack Mount Kit

PEL-003 Panel Cover

GTL-251 GPIB-USB-HS(High Speed)

GTL-248 GPIB Cable (2m)

GTL-249 Frame Link Cable

GTL-246 USB Cable, USB 2.0 A-B TYPE CABLE, 4P

GTL-232 RS-232C Cable, 9-pin, F-F Type, null modem, 2000mm