

PPS regulated laboratory power supplies



Panelectron's regulated laboratory power supply PPS series can provide reliable, cost-efficient solution for your power needs. We continuously follow the everyday need of the power supply market with our development and manufacturing works. Thus we know that large-scale orders are usually not placed through a catalogue or based on datasheets. What we can promise is that we always take your ideas seriously.

STANDARD PRODUCTS FEATURE

- Adjustable Constant Voltage (CV) or Constant Current (CC) mode with automatic crossover and mode indication
- Electronic short-circuit, overload and reverse-polarity (e.g. battery charging) protection

ADDITIONAL FEATUERS TO OFFER

- Logic output of 5 V DC
- RS232 Communication Interface
- Built-in memory

SPECIFICATIONS

MODEL	U _{out} (V)	I _{out} (A)	DISPLAY
DC SINGLE			
18141	0 ... 30V	0.01 ... 1.2A	1 × pointer
18142	0 ... 30V	0.02 ... 2.5A	2 × pointer
18135	0 ... 30V	0.02 ... 2.5A	2 × LCD
18143	0 ... 40V	0.05 ... 5A	2 × pointer
18144	0 ... 40V	0.05 ... 5A	2 × LCD
DC DUAL			
18145	2 × 0 ... 30V	0.02 ... 2.5A	4 × pointer
18146	2 × 0 ... 40V	0.02 ... 2.5A	4 × pointer
18212	2 × 0 ... 40V	0.05 ... 5A	4 × LCD
DC TRIPLE			
18148	2 × 0 ... 30V	0.02 ... 2.5A	4 × LCD
	5 V aux.	2 A max.	
18158	2 × 0 ... 30V	0.02 ... 2.5A	4 × pointer
	5 V aux.	2 A max.	
AC & DC			
18210	0 ... 25 Vdc	0.05 ... 5A	2 × pointer
	5 V DC aux.	2 A max.	
18216	0 ... 25 Vac	5 A max.	2 × pointer
	0 ... 48 Vac	0.02 ... 2A	
	0 ... 230 Vac	2 A max.	
SWITCHMODE			
18220	0 ... 40V	0 ... 5A	1 × LCD
18222	0 ... 30V	0 ... 10A	1 × LCD
18226	2 × 0 ... 40V	0 ... 5A	2 × LCD
18228	2 × 0 ... 30V	0 ... 10A	2 × LCD
CUSTOM – DESIGNED			
18232 / A	12 / 13.8V	25 A max.	1 × LCD
18232 / B	12 / 13.8 / 15V	25 A max.	1 × LCD

MODEL	18141	18142	18135	18143	18144	18145	18146	18212	18148	18158	18210	18216		
MAIN OUTPUT(S)	DC SINGLE					DC DUAL			DC TRIPLE		AC & DC			
DC output voltage range (V)	0...30V		0...40V			2×0...30V	2×0...40V		2×0...30V		0...25V	0...48V		
DC output current range (A)	0.02...1.2 A	0.02...2.5A		0.05...5A		2×0.02...2.5A		2×0.05...5A	2×0.02...2.5A		0.05...5A	0.05...2A		
Meter type (pointer or 3.5-digit LCD)	1 × pointer	2 × pointer	2 × LCD	2 × pointer	2 × LCD	4 × pointer		4 × LCD		4 × pointer	2 × pointer			
AC output voltage range	-													
AC output current (max.)	-													
Logic output voltage (fixed)	-								5V		-			
Logic output current (max.)	-								2A		-			
Line regulation for ±10% line voltage change in Constant Voltage mode	≤0.05%													
Line regulation for ±10% line voltage change in Constant Current mode	≤0.05%	≤0.02%		-							≤0.05%			
Load regulation for ±100% load change in Constant Voltage mode	≤30 mV													
Load regulation for ±100% load change in Constant Current mode	≤5 mA	≤25 mA		≤10 mA		≤1 mA		≤10 mA	≤1 mA		≤10 mA			
Ripple and noise (at max. load)	≤1 mV rms													
GENERAL														
Input voltage	230 VAC ±10%													
Input frequency	50/60 Hz													
Consumption (at full load)	70 W	120 W		280 W		240 W	280 W	550 W	260 W		400 W	200 W		
Dimensions (mm)	144×120 ×260		150×110 ×280		260×140 ×200		260×140 ×260		300×300 ×140		260×140 ×260		285×145 ×245	380×130 ×190
Weight (kg)	2.5kg	4,5kg		7kg		7,5kg		12kg	7,5kg		9,4kg	8kg		
Operating temperature	+5 ... +40°C													
Storing temperature	-25 ... +55°C													
Relative humidity for operation	max. 85%													
RS232 communication	N/A													

MODEL	18218	18220	18222	18226	18228	18232 A	18232 B
MAIN OUTPUT(S)	SWITCHMODE					CUSTOM - DESIGNED	
DC output voltage range (V)	0...30V	0...40V	0...30V	2×0...40V	2×0...30V	12-13.8V fixed positions	12-13.8-15V fixed positions
Adjustment steps (approx. value)	33 mV	50 mV	33 mV	50 mV	33 mV	-	
DC output current range (A)	0...2.5A	0...5A	0...10A	2×0...5A	2×0...10A	25A max.	
Adjustment steps (approximate value)	50 mA	100 mA	200 mA	100 mA	200 mA	-	
Meter type (3.5-digit LCD)	1 × LCD					1 × LCD	
AC output voltage range	-						
AC output current (max.)	-						
Logic output voltage (fixed)	-						
Logic output current (max.)	-						
Line regulation for ±10% line voltage change in Constant Voltage mode	≤10 mV					-	
Line regulation for ±10% line voltage change in Constant Current mode	≤10 mA		≤50 mA	≤20 mA	≤50 mA	-	
Load regulation for ±100% load change in Constant Voltage mode	≤10 mV		≤20 mV	≤10 mV	≤20 mV	-	
Load regulation for ±100% load change in Constant Current mode	≤20 mA		≤100 mA	≤50 mA	≤100 mA	-	
GENERAL							
Input voltage	230 VAC ±10%						
Input frequency	50/60 Hz						
Built-in fuse	1,6A/250V "T"	2A/250V "T"	3,15A/250V "T"	4A/250V "T"	6,3A/250V "T"	4A/250V "T"	
Consumption (at full load)	<200 VA	<400 VA	<600 VA	<800 VA	<1200 VA	<600 VA	
Dimensions (mm)	100×100 ×280	100×170 ×280	100×180 ×280	100×340 ×280	100×360 ×280	105×180 ×220	
Weight (kg)	2kg	2,75kg	3kg	5,5kg	6kg	2,5kg	
Operating temperature	0 ... +40°C						
Storing temperature	-25 ... +55°C						
Relative humidity for operation	max. 85%						
RS232 communication	YES					N/A	