

# PDS Series Regulated DC Power Supply

- High Power Factor (Typical. 95%)
- Low Noise and Ripple Level
- Master Slave Operation
- Preset Memory
- Optional Remote Control Card
- AC Power Source

## Specifications

Model	PDS20-18	PDS20-36	PDS36-10	PDS36-20	PDS60-6	PDS60-12	PDS120-6
<b>OUTPUT</b>							
Output Voltage (V)	0-20	0-20	0-36	0-36	0-60	0-60	0-120
Output Current (A)	0-18	0-36	0-10	0-20	0-6	0-12	0-6
Power Output (W)	360	720	360	720	360	720	720
Output Terminal	Front & Rear	Rear	Front & Rear	Rear	Front	Front	Front
<b>Voltage regulations characteristics</b>							
Line Regulation (With respect to $\pm 10\%$ variation in AC)	0.005%+1mV						
Load regulation (With respect to change from 0 to 100%)	0.005%+2mV						
Ripple / noise (By 20MHz Scope) p-p	30mV						
Ripple / noise (5Hz to 1MHz) rms	1mVrms	1.5mVrms	1mVrms			2mVrms	
Transient response typ	100 $\mu$ sec						
Temperature coefficient typ	$\pm 100$ ppm/ $^{\circ}$ C						
Rise time	Full load / no load 100msec / 100msec						
Fall time	Full load / no load 150msec / 100msec						
Remote Control resistance / voltage	0 to 10k $\Omega$ / 0 to 10V for 0 to F.S. $\pm 5\%$						
<b>Current regulation characteristics</b>							
Line Regulation (With respect to $\pm 10\%$ variation in AC)	5mA	10mA	1mA	5mA	1mA	5mA	1mA
Load regulation (With respect to change from 0 to 100%)	5mA						
Ripple noise (5Hz to 1MHz) rms	10mA	10mA	5mA	10mA	5mA	10mA	5mA
Remote Control resistance / voltage	0 to 10k $\Omega$ / 0 to 10V for 0 to F.S. $\pm 5\%$						
<b>Display</b>							
Voltage Display, Accuracy	3 1/2 digits LED, 0.1% rdg $\pm 2$ digits (23 $\pm 5^{\circ}$ C)						
Voltage Resolution	10mV			100mV			
Current Display, Accuracy	3 1/2 digits LED, 0.5% rdg $\pm 2$ digits (23 $\pm 5^{\circ}$ C)						
Current Resolution	10mA						
Constant-voltage operation display	CV LED On						
Constant-current operation display	CC LED On						
Output On display	OUTPUT LED On						
<b>Output signal</b>							
Alarm signal output	Open collector, Active Low (50ms one pulse)						
<b>External functions</b>							
ON / OFF control	Remote terminal open or short						
AC Power shut down	Remote terminal open or short						
Remote sensing	Max. 1Vp-p correction						
<b>Protection</b>							
Over voltage protection	POWER switch off at setting value						
Over current protection	POWER switch off at setting value						
Over heat protection	POWER switch off if over heated						
<b>Environmental request</b>							
Operate temperature, humidity	0 to 40 $^{\circ}$ C / 30 to 80% RH						
Stocking temperature, humidity	-20 to 70 $^{\circ}$ C / 20 to 80% RH						
<b>General</b>							
Cooling system	Front air, Front intake fan						
Groundable voltage	$\pm 250$ V DC						
<b>Power requirement</b>							
AC input voltage	AC 90V to AC 246V 50/60Hz without setting change.						
Power factor typ	95% typ						
Power consumption	560 W	1100 W	520 W	1050 W	520 W	1050 W	1050 W
Power efficiency	65%	65%	70%	70%	72%	72%	72%
<b>Dimensions / Weight</b>							
Dimensions (Maximum dimensions) W x H x D mm	210 x 124 x 405 (210x141x465.5)				210 x 124 x 405 (210x141x425.5)		
Weight approx.	6.3kg	7.2kg	6.3kg	7.2kg	6.3kg	7.2kg	7.2kg
<b>Options</b>							
GP-IB interface card	V&I set/read, Output ON/OFF, AC shut down						
RS-232C interface card	V&I set/read, Output ON/OFF, AC shut down						
Analog interface card	V/I controlled by external voltage or resistance						