

1-2. Specifications

Model	PAD 8-50L	PAD 16-50L	PAD 20-40L	PAD 35-30L	PAD 55-20L	PAD 70-15L	PAD 110-10L	PAD 160-7L	PAD 250-4.5L
Input									
Input supply	120V/240V ± 10%, 50Hz/60Hz AC, 1φ								
Power consumption 120V AC Rated load	Approx. 1.0kVA	Approx. 1.7kVA	Approx. 1.7kVA	Approx. 1.8kVA	Approx. 1.9kVA	Approx. 1.9kVA	Approx. 1.9kVA	Approx. 1.9kVA	Approx. 1.8kVA
Output									
Output voltage range 10 turns	0-8V	0-16V	0-20V	0-35V	0-55V	0-70V	0-110V	0-160V	0-250V
Voltage resolution (theoretical value)	1.5mV	3mV	3.6mV	6.3mV	10mV	13mV	20mV	29mV	45mV
Output current range 1 turn	0-50A	0-50A	0-40A	0-30A	0-20A	0-15A	0-10A	0-7A	0-4.5A
Current resolution (theoretical value)	170mA	170mA	136mA	102mA	68mA	51mA	34mA	24mA	16mA
Constant voltage characteristics									
Regulation *1									
Source effect (line regulation) (For ±10% change of line voltage)	0.005% + 1mV								0.005% + 2mV
Load effect (load regulation) (For 0 to 100% change of output current)	0.005% + 2mV			0.005% + 1mV				0.005% + 2mV	0.005% + 3mV
Ripple and noise (5 Hz - 1 MHz) rms *2	500µV	500µV	500µV	500µV	500µV	1mV	1mV	1mV	5mV
Transient response (typical) *3	50µsec. (5 - 100% change)								
Temperature coefficient (typical)	50 ppm/°C								
Remote control resistance and voltage	Approx. 0 - 10kΩ, 0 - 10 V								
Constant current characteristics									
Regulation									
Source effect (line regulation) (For ±10% change of line voltage)	3mA	3mA	3mA	3mA	1mA	1mA	1mA	1mA	1mA
Load effect (load regulation) (For 0 to 100% change of output voltage)	5mA	5mA	5mA	5mA	2mA	3mA	3mA	2mA	2mA
Ripple and noise (5 Hz - 1 MHz) rms *2	10mA	10mA	10mA	5mA	2mA	5mA	2mA	2mA	2mA
Remote control resistance/voltage, approx. [kΩ/V]	1/0.5	1/0.5	1/0.4	1/1.0	1/1.0	1/0.45	1/1.0	1/1.1	1/0.45
Operating ambient temperature range	0 - 40°C (32 - 104°F)								
Operating ambient humidity range	10% - 90% RH								
Cooling method	Forced air cooling with fan								
Polarity of output voltage	Positive or negative grounded								
Isolation from ground	±250V DC							±500V DC	

Notes: *1. Measured using the sensing terminals.

*2. Measured with the positive or negative output grounded.

*3. Recovery time within 0.05% + 10mV of the output voltage.

2/22/08

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Protections									
Operation	Input power switch is turned off.								
Trip temperature of thermal protector	100°C (212°F) at cooling package								
Overvoltage protection (OVP)									
Voltage setting range *4	3-10V	6-18V	6-22V	6-38V	11-60V	15-80V	20-129V	30-180V	50-280V
Trigger pulse width *4	50msec.								
Input fuse rating									
At 120V AC source	15A	30A							
At 240V AC source	10A	15A							
Output fuse rating	50A	50A	40A	30A	20A	15A	10A	10A	5A
Meters									
Voltmeter, Full scale, Class 2.5	8V	16V	20V	35V	60V	70V	110V	175V	250V
Ammeter, Full scale, Class 2.5	60A	60A	40A	35A	22A	15A	12A	8A	5A
Constant voltage mode indication	G.V : With green LED								
Constant current mode indication	C.C : With red LED								
Insulation resistances									
Between chassis and line	500V DC, more than 30MΩ								
Between chassis and output terminal	500V DC, more than 20MΩ								
Dimensions *5	430W × 160H × 400D mm (16.9W × 6.3H × 15.8D in.)								
Maximum dimensions	431W × 175H × 490D mm (17.0W × 6.9H × 19.3D in.)								
Weight	Approx. 31 kg	Approx. 33 kg	Approx. 33 kg	Approx. 34 kg	Approx. 33 kg	Approx. 34 kg	Approx. 33 kg	Approx. 36 kg	Approx. 34 kg
Accessories (in carton)									
Instruction manual									
Input line fuse (spare)	1 copy								
For 120V AC	15A, 1 ea.	30A, 1 ea.							
For 240V AC	10A, 1 ea.	15A, 1 ea.							
Input cord	3-core cabtire cord 1								
Others	Voltage check chips 2	Guard cap 1 set							

Notes: *4. Typical value

*5. With rack mount brackets (option), can be mounted on a standard 19-inch or 500-mm rack.