

DC → DC SWITCHING POWER SUPPLY

DDP1120D SERIES

All the patents are held accountable counterfeiting.

Features





Green Power

- Standard/Din Rail Mounting Dual Purpose, meet EU EN 43880 installation dimension standard 4SU
- Width only 70mm(4SU)
- -20~+70°C wide working temperature, optional -40 °C

- No minimum load required
 DC output adjustable(±10%)
 Cooling by free air convection
- Can be installed on din rail TS-35/7.5 or 15
- Protections: Short circuit / Overload / Over voltage / Input reverse polarity / Input under voltage protection
- 4KVdc I/O isolation (Reinforced isolation)
- 3 years warranty

DIMENSIONS:52.5(H)*90.7(D)*70(W)mm WEIGHTS: 254g

Detail specifications

MODEL DDP1120D		B-12	B-24	B-48	C-12	C-24	C-48
	DC voltage	12V	24V	48V	12V	24V	48V
	Rated Current	10A	5A	2.5A	10A	5A	2.5A
	Current Range	0~10A	0~5A	0~2.5A	0~10A	0~5A	0~2.5A
	Rated Power	120W	120W	120W	120W	120W	120W
	Ripple&Noise(max.)	50mVp-p	50mVp-p	50mVp-p	50mVp-p	50mVp-p	50mVp-p
OUTPUT	Voltage Adj. Range	10.8~13.2V	21.6~26.4V	43.2~52.8V	10.8~13.2V	21.6~26.4V	43.2~52.8V
001701	Voltage Tolerance	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%
	Line Regulation	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
	Load Regulation	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%
	Setup, Rise Time	500ms, 60ms@24Vdc			500ms, 60ms@48Vdc		
	Hold Up Time(Typ.)	Meet S1 level 6ms (full load), meet S2 level 10ms (70% load).			Meet S1 level 6ms (full load), meet S2 level 10ms (60% load).		
INPUT	Voltage Range	16.8~33.6Vdc			33.6~67.2Vdc		
	Efficiency(Typ.)	89%	89.5%	91%	89.5%	91%	92%
	DC Current(Typ.)	5.6A@24Vdc			2.8A@48Vdc		
	Inrush Current(Typ.)	5A@24Vdc			5A@48Vdc		
PROTECTION	Overload	105~135% rated output power.					
		Protection type: Recovers automatically after fault condition is removed.					
	Over Voltage	14.4~16.8V	28.8~33.6V	56.7~67.2V	14.4~16.8V	28.8~33.6V	56.7~67.2V
		Protection type: Recovers automatically after fault condition is removed.					
	Reverse Polarity	By internal MOSFET, no damage, recovers automatically after fault condition removed.					
	Under Voltage Lockout	24Vin: Power ON ≥ 16.8V, OFF ≤ 16.5V 48Vin: Power ON ≥ 33.6V, OFF ≤ 33V					



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CE Standards

EN 55032, EN 61000-3-3, (EN 61000-4-2, EN 61000-4-3, EN 61000-4-4, EN 61000-4-5, EN 61000-4-6, EN 61000-4-8), IEC 62368-1(LVD), Heavy Industry level, criteria A

Safety Standards



CE Marking

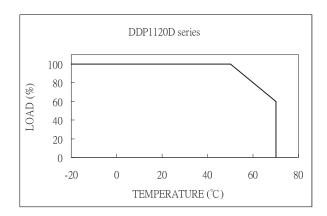
Environments

Operating Temperature $-20 \sim 70^{\circ}\text{C}$, AmbientOperating Humidity $20 \sim 90\%$ RH, No CondensingStorage Temperature $-20 \sim 85^{\circ}\text{C}$, AmbientVibration2G, $10 \sim 500\text{Hz}$, 3 axes

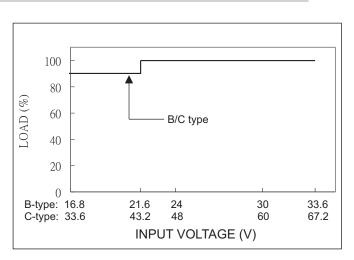
NOTE

- 1. Each output can provide up to maximum load, but total load can not exceed rated output power.
- 2. Line regulation is measured from low line to high line at rated load.
- 3. Load regulation is measured from 20% to 100% of rated load at 24VDC/48VDC input.
- 4. Ripple & Noise are measured with 20MHz oscilloscope at 24VDC/48VDC by using a 20cm long 12" twisted pair-wire with a 0.1uF/630V metal capacitor & a 47uF electrolytic capacitor parallel on the test point.
- 5. Efficiency is measured at rated load and 24VDC/48VDC input.
- 6. Hold-up time is measured at rated load and 24VDC/48VDC input.
- 7. Output Voltage Adjustable is measured on 5% of rated load.
- 8. When placing an order, model name is composed of "series name" and "model name on top of the specification form". For example, model name of B-12 of the order on top of the specification form is DDP1120DB-12.
- 9. Reign Power reserve the right to change specifications at any time without notice.

Derating Curve



Output Derating VS Input Voltage



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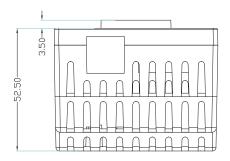


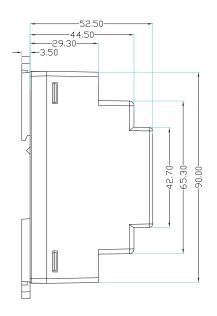
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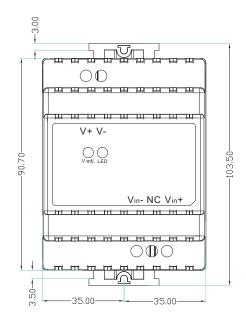
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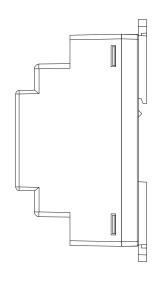
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Mechanical Details









CASE NO.: DLP1100D

UNIT: mm

DIMENSION: 52.5(H)*90.7(D)*35(W)

MATERIAL : PLASTIC COLOR : BLACK

Panel Designation

Symbol	Description		
Vin-	DC Negative Input Terminal		
Vin+	DC Positive Input Terminal		
NC	No connection		
V-	DC Negative Output Terminal		
V+	DC Positive Output Terminal		
LED	Green LED Indicator		
V adj.	Potentiometer For Output Voltage		

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