

12V 50W 1 Phase





Features:

- Full aluminium casing for lightweight and corrosion resistant handling
- Universal AC input
- Overload protection
- Over voltage protection
- Thermal protection
- MTBF:>700,000hrs
- Efficiency> 83%typ.
- Expected life time: 10 years
- 2 year warranty
- RoHS compliant output terminals for fast wiring and easy installation

PMC-12V050W1AA

Summary

The new Panel Mount Power Supply is the latest offering from one of the world's largest power supply manufacturers and solution providers - Delta.

The product range offers a nominal output voltage of 12V, a wide temperature range from -10°C to +70°C and a highly dependable minimum holdup time.

The state-of-the-art design is made to withstand harsh industrial environments. What makes the product stands out from the crowd is its lightweight full aluminum body design which can withstand shock and vibration according to IEC60068-2.

Delta's Panel Mount Power Supply also offers overvoltage and overload protection. Using a wide input voltage range design, it is compatible worldwide. The input also includes DC operating voltage from 120-375Vdc. Best of all, this excellent design and quality does not come with a big price tag.



Technical Data

PMC-12V050W1AA		
Input Data (1)		
Nominal input voltage (wide-range input)	100-240VAC	
Input Voltage range	85-264VAC (DC input range 120-375VDC)	
Frequency	47-63Hz (0Hz at DC input)	
Current consumption (at nominal values)	1.5A max. (1.1A @ 115VAC, 0.7A @ 230VAC)	
Inrush current limitation. I2t (+25 °C) typ.	< 30A @ 115VAC, 65A @ 230VAC	
Mains buffering at nominal load (typ.)	> 15ms @ 115VAC , > 80ms @230VAC	
Turn-on time after applying the mains voltage	< 2.5Secs @ 100% load	
Transient surge voltage protection	VARISTOR	
Input fuse, internal (device protection)	T 3.15AH / 250V	
Recommended backup fuse:	6A, 10A or 16A,	
Power circuit-breaker characteristic	B.	
Discharge current to PE	< 1mA	
Connection Method	Screw Connection.	
Stripping Length	6 mm or use suitable lug to crimp	

Output Data (2)	
Nominal output voltage U _N / tolerance	12VDC±2%
Setting range of the output voltage	11-14VDC
Nominal output current IN with convection cooling:-20 to +50°C	4.17A
Derating above +50°C	2.5% / K.
Current limitation at short-circuits approx.	> 120% of Po Max typically.
Startup with capacitive loads	Max 8,000μF
Max. power dissipation idling/nominal load approx.	50W
Efficiency (at 115VAC and nominal values)	> 83% typical.
Residual ripple/ peak switching (20 MHz) (at nominal values)	< 150mVpp
Can be connected in parallel for redundancy and increased capacity	YES with oring Diode.
Surge voltage protection against internal surge voltages	YES

Certification/Standards	
Electrical equipments of machines	IEC60204-1 (over voltage category III)
Electronic equipment for use in electrical power installations	EN 50178 / IEC62103
Safety entry low voltage	PELV (EN 60204), SELV (EN 60950)
Electrical safety (of information technology equipment)	UL/C-UL recognized to UL60950-1, CB scheme to IEC60950-1, TUV
Protection against electric shock	DIN 57100-410
CE	In conformance with EMC directive 2004/108/EC and low voltage directive 2006/95/EC
ITE	EN55022, EN61000-3-2, EN61000-3-3, EN55024
Industrial	EN55011
Limitation of mains harmonic currents	DIN57100-410
	CE C SUS US E191395
RoHS Compliant	Yes

General Data		
Isolation voltage:		
Input / output	type test/routine test	3KVAC
nput / PE	type test/routine test	1.5KVAC
output / PE	type test/routine test	0.5KVAC
Degree of protection		IPX0
Class of protection		Class I with PE connection
MTBF		> 700,000hrs.
Type of housing		Aluminum
Dimensions (L / W / H)		128mmx97mmx38mm
Veight		0.26Kg approx
STATUS Indicator		0.201 tg approx
ED (6) DC OUTPUT OK		YES (GREEN LED)
Climatic Data		TES (OKEEN LED)
Ambient temperature (Operating)		-10°C to 70°C (>50°C derating)
Ambient temperature (Operating) Ambient temperature (Storage)		-10 C to 70 C (>50 C defauling)
	F °C no condensation	< 95% RH
	5 °C, no condensation	
/ibration (Operating)		10 to 150Hz, @ 50m/S² (5G peak); displacement of 0.35mm; 20
		min per axis for all X,Y,Z direction. Refer to IEC 6800-2-6. Note: a
		figures quoted are amplitudes (peak values).
Shock		IEC60068-2-27, 30G (300m/S ²) for duration 18ms 1 Shock in 2
		Directions tested with Fixture and EUT Panel Mounted in Vertical
		and Horizontal position
		2
<u> </u>		
Pollution degree Climatic class In conformance with EMC guidelir	ne 89/336/EEC and low	3K3 according to EN 60721 1AC / 12VDC / 4.17A (EC892447)
Climatic class In conformance with EMC guidelir voltage directive 73/23/EEC EMC (electromagnetic compatibility)		3K3 according to EN 60721
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Climatic class In conformance with EMC guidelir voltage directive 73/23/EEC EMC (electromagnetic compatibility) mmunity to interference according to EN		3K3 according to EN 60721
Climatic class In conformance with EMC guidelir voltage directive 73/23/EEC EMC (electromagnetic compatibility) mmunity to interference according to EN	61000-6-2 Housing	3K3 according to EN 60721 1AC / 12VDC / 4.17A (EC892447)
Climatic class In conformance with EMC guidelir voltage directive 73/23/EEC EMC (electromagnetic compatibility) mmunity to interference according to EN EN 61000-4-2 2)	61000-6-2 Housing Contact discharge:	3K3 according to EN 60721 1AC / 12VDC / 4.17A (EC892447)
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Climatic class In conformance with EMC guidelir voltage directive 73/23/EEC EMC (electromagnetic compatibility) mmunity to interference according to EN 61000-4-2 2) Discharge of static electricity (ESD)	61000-6-2 Housing Contact discharge: Discharge in air: Housing	3K3 according to EN 60721 1AC / 12VDC / 4.17A (EC892447) LEVEL 4 8 KV 15 KV LEVEL 3
Climatic class In conformance with EMC guidelir voltage directive 73/23/EEC EMC (electromagnetic compatibility) mmunity to interference according to EN 61000-4-2 2) Discharge of static electricity (ESD) EN 61000-4-3 1) Electromagnetic HF field	61000-6-2 Housing Contact discharge: Discharge in air: Housing Frequency/Field intensity:	3K3 according to EN 60721 1AC / 12VDC / 4.17A (EC892447) LEVEL 4 8 KV 15 KV LEVEL 3 80MHz - 14 Hz / 10v/m,with 1kHz tone/80% modulation
Climatic class In conformance with EMC guidelir voltage directive 73/23/EEC EMC (electromagnetic compatibility) mmunity to interference according to EN 61000-4-2 2) Discharge of static electricity (ESD) EN 61000-4-3 1) Electromagnetic HF field EN 61000-4-4 2)	61000-6-2 Housing Contact discharge: Discharge in air: Housing Frequency/Field intensity: Input	3K3 according to EN 60721 1AC / 12VDC / 4.17A (EC892447) LEVEL 4 8 KV 15 KV LEVEL 3 80MHz - 14 Hz / 10v/m,with 1kHz tone/80% modulation 2KV ⁴)
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In conformance with EMC guideling voltage directive 73/23/EEC EMC (electromagnetic compatibility) Immunity to interference according to EN 61000-4-2 20 Discharge of static electricity (ESD) EN 61000-4-3 10 Electromagnetic HF field EN 61000-4-4 20 Fast transients (Burst): EN 61000-4-5 20 Surge voltage capacities (Surge):	61000-6-2 Housing Contact discharge: Discharge in air: Housing Frequency/Field intensity: Input Output: Signal: Input Output: Signal: Signal:	3K3 according to EN 60721 1AC / 12VDC / 4.17A (EC892447) LEVEL 4 8 KV 15 KV LEVEL 3 80MHz - 14 Hz / 10v/m,with 1kHz tone/80% modulation 2KV ⁴⁾ 2KV ³⁾ / 2KV ⁴⁾ (Level 3)
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Climatic class In conformance with EMC guideling voltage directive 73/23/EEC EMC (electromagnetic compatibility) Immunity to interference according to EN 61000-4-2 20 Discharge of static electricity (ESD) EN 61000-4-3 10 Electromagnetic HF field EN 61000-4-4 20 Fast transients (Burst): EN 61000-4-5 20 Surge voltage capacities (Surge): EN 61000-4-6 10 Conducted disturbance	61000-6-2 Housing Contact discharge: Discharge in air: Housing Frequency/Field intensity: Input Output: Signal: Input Output: Signal: Signal:	3K3 according to EN 60721 1AC / 12VDC / 4.17A (EC892447) LEVEL 4 8 KV 15 KV LEVEL 3 80MHz - 14 Hz / 10v/m,with 1kHz tone/80% modulation 2KV ⁴⁾
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Panel Mount Series

Normal operating behavior within the defined 1) Criterion A:

2) Criterion B: Temporary impairment to operational behavior that is corrected by the device itself.

3) Symmetrical: Conductor to conductor.

4) Asymmetrical: Conductor to ground.

5) Class B: Area of application industry and residential.



Numbering for Panel Mount Power Supply

For example: PMC-12V050W1AA

XX	Χ	XXXX	XXXX	X	XX

XX.....Product Type

PM Panel Mount	
----------------	--

 $XX \times X XXXX XXXX XXX$

X.....Model

С	Enclose Power
	Supply

XX X XXXX XXXX X XX

XXXX.....Voltage

12V	12 Voltage
-----	------------

XX X XXXX XXXX XXX

XXXX.....Watt

035W	35 Watt
050W	50 Watt
100W	100 Watt

X.....Phase

1	1 Phase
3	3 Phase

XX.....Variation (Eg, Customer, material,Etc.)

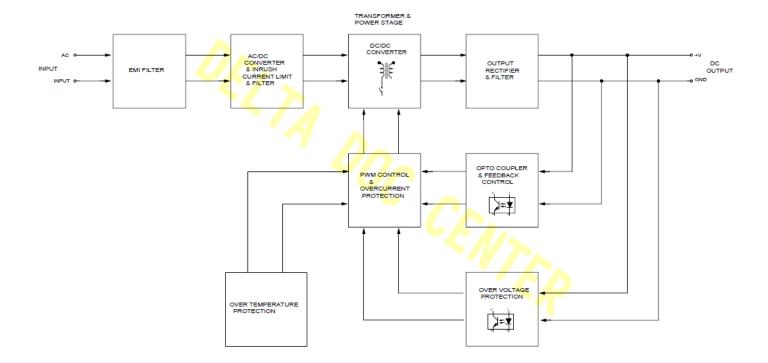
AA	Delta standard –
	product



Block Diagrams/Connections:

Block Diagram of Power Supply,

• PMC-12V050W1AA

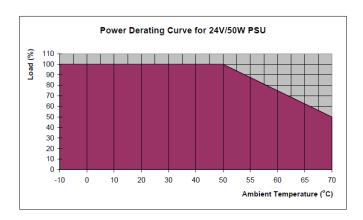


Panel Mount Series

Engineering Data

Derating Curve

Model: PMC-12V050W1AA

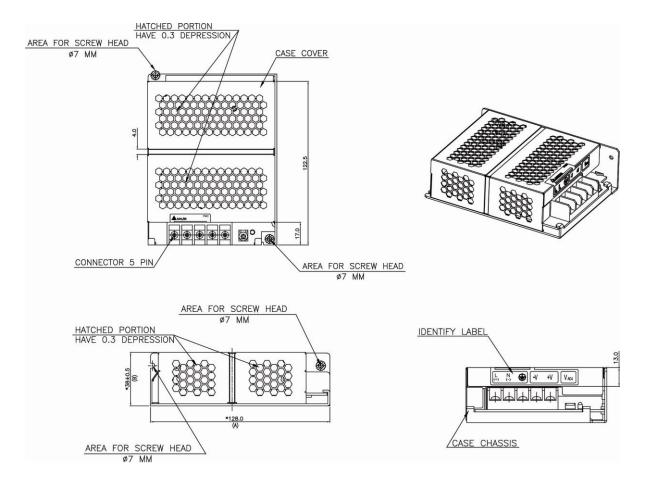


Note:

- Do not use the Power Supply in areas outside the shaded portion as shown in the above graph, internal parts may occasionally deteriorate or be damaged.
- 2. For the power derating refer above graph ambient temperature > 50°C, the output capacity has to be reduced by 2.5% per Kelvin increase in temperature. If the output capacity is not reduced when Amb > 50°C device will run into thermal protection by switching off i.e. device will go in bouncing mode and will recover when
- Amb is lowered or load is reduced as far as necessary to keep device in working condition.
- 3. If the power supply has to be mounted in any other direction please contact your service provider.
- 4. In order for the device to function in the manner intended, it is also necessary to observe lateral spacing of 2 cm to other modules.
- 5. Depending on the ambient temperature and load of the device, the temperature of the housing can become very high!

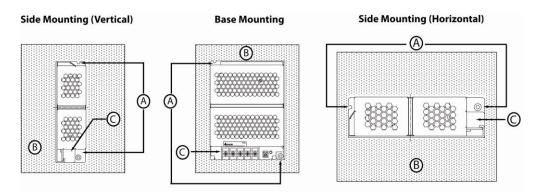


Mechanical drawing



Device description (Fig. 1)

- ① Input & Output terminal block connector
- ② DC voltage adjustment potentiometer
- 3 DC OK control LED (green)



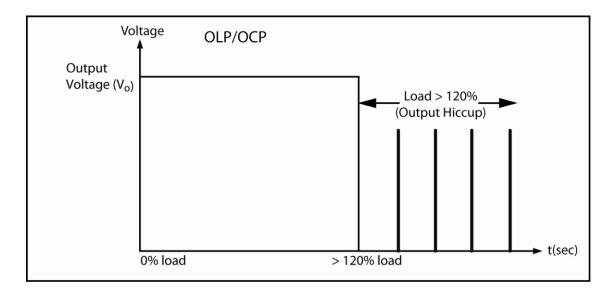
Panel Mount Series



Over Load Protection

The Power Supply is provided with an overload protection (OLP/OCP) function which protects the power supply from possible damage by over current. Additionally power supply also has over temperature protection (OTP) in case the over load condition persists for a longer duration and is below the overload trigger point but > 100% load.

Typically the over load current (I_{OL}) is > I_{SURGE} (120%) output voltage will start drooping down when the power supply reaches max power limit and will run into bouncing mode when the output reaches UVLO (under voltage point). The output voltage will recover automatically when the overload condition is removed.



Short Circuit Protection

The Power Supply also has a short circuit protection which is in line with the overload protection and activates whenever there is a short across the output voltage, output goes in bouncing mode and remains until the fault is removed.

Over Temperature Protection

Additionally power supply also has over temperature protection (OTP) as mentioned above this OTP comes into picture when the over load condition persists for a longer duration and the output current level is below the overload trigger point but > 100% load.

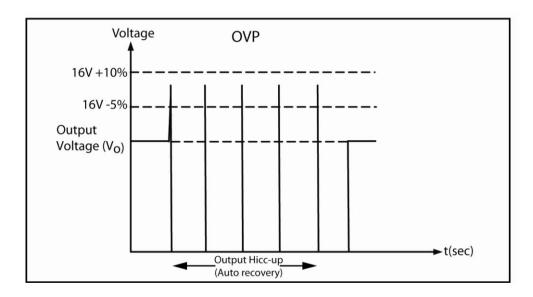
Also in the event of a higher ambient operating condition with 100% load the power supply will run into OTP when the Ambient temperature is > 55°C. The protection is self recoverable when activated output voltage bounces until the operating ambient temperature of the power supply is reduced or the power supply is used within its power derating curve.



Over Voltage protection

The Power Supply is protected by Over voltage in the event that power supply feedback circuit fails the output voltage will not be > 16V + 10% under any Line/Load and operating ambient conditions.

The unique feature about this over voltage protection (OVP) is that power supply doesn't shut down but goes **Hicc-up mode (Auto recovery) which is 16V +10%, -5%.** The power supply output voltage will recover back to 12Vdc once the fault condition is removed.



• Inrush Current, Start Up Time, Output Hold Up Time

Inrush Current,

Inrush current is the first surge current seen on the input side when AC input is applied to the power supply. It is the first pulse captured; see a typical picture for the Inrush current as seen in the power supply.

Start Up Time,

Start up time is measured from the point AC input is applied and the o/p voltage reaches within 90% of its set value. See picture below for a typical start up time characteristic of a power supply.



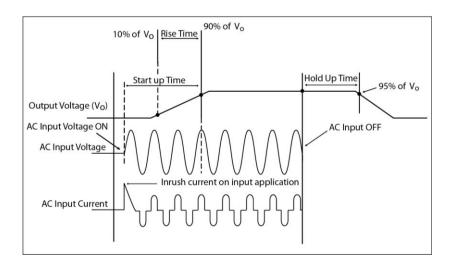
Rise Time,

Rise time is the time needed for o/p voltage to rise from 10% of its set value to 90% of its set value. See the picture below for a typical rise time measurement in a power supply.

Panel Mount Series

Hold Up Time,

Hold time is the time when the AC input collapses and o/p voltage retains regulation for a certain period of time is called as hold up time. See in the picture below a typical hold up time characteristic of a power supply. The hold time is measured until the o/p voltage remains in regulation hence it measured until the o/p voltage reaches 95% of its set value.



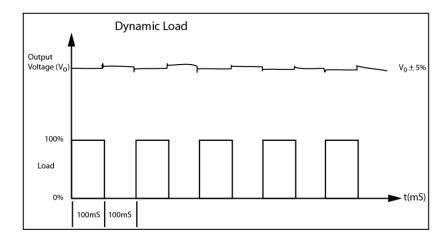
Output Voltage Adjust

The 12VDC connection is made using the "+" and "-" screw connections. At the time of delivery, the output voltage is 12VDC. The output voltage can be set from 11 to 14VDC on the potentiometer seen as Adjust on the front panel of each power supply.



Dynamic Load

Additionally power supply is capable of dynamic change of load from 0% to 100% with o/p voltage within $\pm 5\%$ of regulation limits. See below the dynamic behavior of the PSU.



Redundancy & Parallel Operation with Oring Diode

See below figure for a typical Redundant/Parallel operation of PSU using CliQ series power supplies. The 2 power supplies PSU1 & PSU2 are connected thru a twin diode where Anode1 A1 is connected to the +Ve i.e. 12V of PSU1 and Anode2 A2 is connected to the +Ve i.e. 12V of PSU2 and the output ground GND are shorted together.

The output of these 2 power supplies PSU1 & PSU2 is drawn from the Cathode K of the twin diode thus making the power supply work in Redundant/Parallel operation.

Redundant Operation:

When 2 power supplies are connected in below manner the power supply PSU1 or PSU2 whichever has higher output voltage takes the max load and the other PSU is operating in standby (@No Load) in case of failure on PSU1, PSU2 takes over the load from PSU1 and supplies the required power to end system.



Redundant / Parallel Operation with External Oring Diode

Redundance / Parallel Operation with External Oring Diode Oring Diode **Heat Sink** Diode A1 A2 O GND **OUTPUT** 12V Α1 A2 PMC-12V050W1AA PMC-12V050W1AA 12V---4.17A 12V---4.17A PSU₁ PSU₂ L N 🖹



Parallel Operation:

When 2 power supplies are also connected in the above manner they can share the Load provided following steps are taken.

Step 1:

Measure the o/p voltages @ NL measured from A1 to Gnd i.e. VA1 to Gnd of PSU1 and VA2 to Gnd of PSU2. If the voltages are not same follow step 2, if the o/p voltages are same skip step 2 and move to step 3.

Step 2:

Adjust the o/p voltages with the help of VR available on the front panel of the PSU marked as ADJUST for both PSU1 and PSU2 at the same level for e.g. if PSU1 o/p is measuring 12.15Vdc and PSU2 is measuring 12.25Vdc adjust the o/p voltage of either PSU1 close to 12.25Vdc or adjust the o/p voltage of PSU2 close to 12.15Vdc.

Step 3:

Connect the PSU to the end system load and measure the o/p voltages from A1 to Gnd i.e. VA1 to Gnd of PSU1 and VA2 to Gnd of PSU2. Ensure that o/p voltages are same even after the 2 power supplies are connected to load. If not then adjust them with the VR available on Front panel. A tolerance of \pm 25mV would be acceptable.

Note:

- 1. If the o/p voltage of any 1 power supply i.e. PSU1 or PSU2 is higher that power supply will take the initial load and also share the maximum load.
- 2. If the o/p voltages adjusted are same then an equal load current sharing between the 2 power supplies can be achieved.
- 3. The Oring diode must be of an appropriate rating, recommended rating of Oring Diode is minimum 4 times of the output load current and minimum reverse voltage rating of 45Vrr.
- 4. A suitable HS is also advised to ensure that oring Diode is not over heated and damaged.