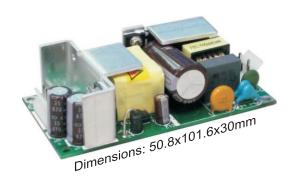


P/N: N1080MG-12

80W 12VDC Output

Features

- * 80W with forced air cooling 60W convection-cooled
- * Compact size 2 x 4 inch
- * Class I & Class II construction
- * Meets EMI CISPR/FCC class B
- * No-load power consumption < 0.5W
- * Optional +5Vsb & Remote on/off function





Output Specification

Output Voltage	Mini. Output Current	Rated Output Current	Max Output Current	Line Regulation (Note 5)	Load Regulation (Note 5)	Ripple & Noise p-p (Note 1)	Initial Setting Accuracy ^(Note 2)	
+12V	0A	5A	6.66A	±1%	±1%	±1%	±1%	
+5Vsb ^{(Note 3}	³⁾ 0A	0.1A	0.1A	±1%	±1%	±1%	±1%	_

Total Output Power: Max. 80W with 7 CFM force air cooling^(Note 4); 60W convection cooled at 50°C environment temperature .

- 1) Measured by a 20MHz bandwidth limited oscilloscope and the each output is connected with a $10\mu F$ Electrolytic Capacitor and a $0.1\mu F$ Ceramic Capacitor.
- 2) Initial Setting Accuracy is at Input 110VAC and all output at 60% rated load.
- 3) With optional +5Vsb combining remote on/off function.
- 4) Air flow from IC3 to the body of PSU with distance 50mm maximum.

Input Specification

Parameter	Conditions/Description	Min.	Nom.	May	Units
	•				
Input Voltage	Continuous input range.	90	115/230	264	VAC
Input Frequency	AC input.	47		63	Hz
Hold Up Time	Nominal AC Input Voltage (115VAC/230VAC), rated load.	16			ms
Input Current	Nominal AC Input Voltage (115VAC/230VAC), rated load.			1.5	Α
Inrush Current	Nominal AC Input Voltage (115VAC/230VAC), one cycle at 25℃.			60	Α
Input Protect	Non-user serviceable internally located AC input line fuse.				
No-load power	Nominal AC Input Voltage (115VAC/230VAC).		•	<0.5	W
consumption	Nominal Ac input voltage (113 vAc/230 vAc).			\0. 5	vv

Output Specification

Parameter	Conditions/Description	Min.	Nom.	Max.	Units
Efficiency	At 230VAC Input, rated load, warm up with 0.5 hr.	86	87		%
Minimum load		See	Chart of	Desci	ription
Ripple & Noise	Rated load, 20MHz bandwidth	See	Chart of	Desci	ription
Output Power	Continuous output power.	See	Chart of	Desci	ription
Line Regulation	Less than ±1% at rated load with ±10% changing in input voltage 115VAC.	See	Chart of	f Desci	ription
Load Regulation	Measured from 60% to 100% rated load and from 60% to 20% rated load (60% ±40% rated load).	See	Chart of	f Desci	ription
Turn-on Delay	Time required for initial output voltage stabilization.		0.3		Sec

Specification subject to change without prior notice.



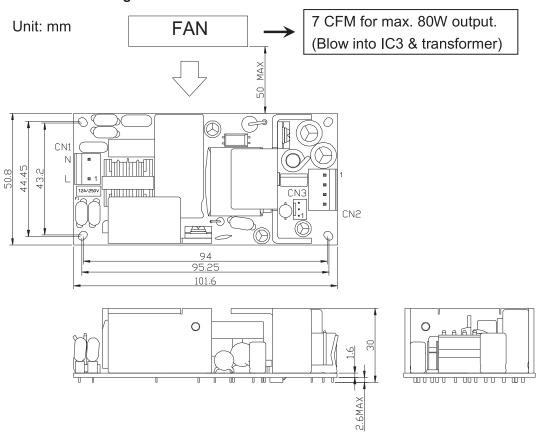
- 1) As a build in type power supply, the power supply needs to be installed in a suitable enclosure to pass the EMI/EMC tests. The final assembly has to comply with the valid EMI/EMC and safety.
- 2) The mounting holes should be connected to each other to conform the EMI limit.
- 3) The test result of input 240Vac / 100Vac is criteria A / B.

Mechanical Specification

Parameter	Condition	s/Descriptio	n							
Dimension	101.6 (L)	101.6 (L) x 50.8 (W) x 30 (H) mm, Tolerance +/- 0.4mm.								
Connector	CN1 A	Molex 09-65-2038 or equivalent (remove the middle pin).						middle pin).		
	CN2 D	Molex 09-65-2048 or equivalent.								
	CN3* 5Vsb:		Molex 22-04-1031 or equivalent.							
Pin Assignment	CN1	Pin	1.	L	2.	N				
_	CN2	Pin	1.	V+	2.	V+	3.	V-	4. V-	
	CN3*	Pin	1.	+5Vsb	2.	GND	3.	Remo	te On / Off	

^{*=} Only for 5Vsb model (see point 8).

Mechanical drawing



*Application note:

The installation shall be kept in an isolation distance min. 2.8mm between the unit and the system chassis. There exist hazardous voltage in dotted area, keep insulating to avoid hazardous electric shock.





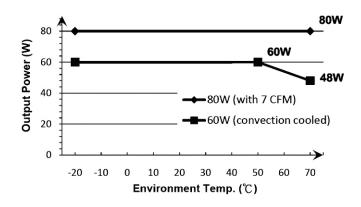
Interface Signals and Internal Protection

Parameter	Conditions/Description
Short Circuit Protection	Fully protected against output overload and short circuit. Automatic recovery upon of
	overload condition.
Over Voltage Protection	For some reason the power supply fails to control itself, the build-in over voltage
	protection circuit will auto recovery the outputs to prevent damaging external circuits.
Remote on/off	The power supply will be turned on when the power On/Off pin is connected to secondary
(optional)	GND. This function exists only with optional +5Vsb (see section 8).

Environment Specification

Parameter '	Conditions/Description	Min.	Nom.	Max.	Units
Operating Temperature	Derate linearly above 50℃ by 1% per ℃ to a maximum temperature of 70℃, with convection cooled.	- 20		+70	$^{\circ}$
Storage Temperature		- 40		+85	$^{\infty}$
Relative Humidity	Non-condensing.	5		95	%RH
Altitude	Operating	•	•	3K	Meter
	Non-operating			4K	ivietei

Performance curve



^{*} Test within horizontal installation, for other orientation, please confirm with us.

Safety Approvals, EMI and EMS Specification

Parameter	Conditions/Des	cription	Min.	Nom.	Max.	Units
Approvala	IEC, IEC 60950-1: 2005+A11: 2009, 2 nd Edition TUV, EN 60950-1: 2006+A11, 2 nd Edition			CE ap	proved	
Approvals	UL, UL 60950-1,	2nd Edition, 2007-03-27		UL ap	proved	
	CSA C22.2 No. 6	60950-1-07, 2nd Edition, 2007-03		cUL ap	proved	
Hi-Pot	Input to output		3000			VAC
EMI (Note 1, 2.)	EN 55022 / CISF	PR 22 & FCC Part 15	В			Class
	EN 61204-3		В			Class
EMS	IEC 61000-4-2	±8KV air discharge, ±6KV contact discharge	Α			
	IEC 61000-4-3	10V/m	Α			
	IEC 61000-4-4	±2KV Line & PE	Α			
	IEC 61000-4-5	L-N:±1KV, L/N-PE:±2KV	Α			
	IEC 61000-4-6	10Vrms	Α			
	IEC 61000-4-8	10A/m	Α			Criteria
	IEC 61000-4-11	Voltage dips >95%, 0.5 cycle	Α			
		Voltage dips 30%, 25 cycles	Α			
		Voltage dips 60%, 5 cycles	A / B (Note 3.)			
		Voltage interruptions >95%, 250 cycles	В			