

This power supply is manufactured by SMD technology. The stress to P.C.B like twisting or bending causes the defect of the unit, so handle the unit with care.

MODEL	LGA100A-5-Y	LGA100A-12	LGA100A-24	LGA100A-24-H
MAX OUTPUT WATTAGE[W]	100	102	103.2	103.2
DC OUTPUT	5V 20A	12V 8.5A	24V 4.3A	24V 4.3 (Peak 5.4) A

SPECIFICATIONS

	MODEL		LGA100A-5-Y	LGA100A-12	LGA100A-24	LGA100A-24-H	
	VOLTAGE[V]		AC85 - 132 1 ϕ or DC110 - 170 (Refer to Instruction Manual 1.1, and 3.2 Derating)				
INPUT	CURRENT[A] ACIN 100V		2.4typ (lo=100%)				
	FREQUENCY[Hz]		47 - 440 or DC (Refer to Instruction Manual 1.1)				
	EFFICIENCY[%]	ACIN 100V	80.0typ (lo=100%)	83.0typ (Io=100%)	85.5typ (lo=100%)	85.5typ (lo=100%)	
	INRUSH CURRENT[A]	ACIN 100V	15typ (Io=100%, More than	10sec. to re-start)			
	LEAKAGE CURRENT[mA]		0.5max (ACIN 100V, 60Hz, Io=100%, According to IEC60950-1 and DEN-AN)				
OUTPUT	VOLTAGE[V]		5	12	24	24	
	CURRENT[A] *3		20.0	8.5	4.3	4.3 (Peak 5.4)	
	LINE REGULATION[mV]		20max	48max	96max	96max	
	LOAD REGULATION	[mV]	40max	100max	150max	150max	
	RIPPLE[mVp-p]	0 to +50℃ *1	80max	120max	120max	240max	
		-10 - 0℃ *1	140max	160max	160max	320max	
	RIPPLE NOISE[mVp-p]	0 to +50°C *1	120max	150max	150max	300max	
		-10 - 0℃ *1	160max	180max	180max	360max	
	TEMPERATURE REGULATION[mV]	0 to +50℃	50max	120max	240max	240max	
		-10 to +50°C	60max	150max	290max	290max	
	DRIFT[mV] *2		20max	48max	96max	96max	
	START-UP TIME[ms]		200max (ACIN 100V, Io=100%)				
	HOLD-UP TIME[ms]		20typ (ACIN 100V, Io=100%)				
	OUTPUT VOLTAGE ADJUSTMENT RANGE[V]		4.5 - 5.5	- 5.5 Fixed ("Y"which can be adjusted the output is available as optional $\pm 10\%$)			
	OUTPUT VOLTAGE SETTING[V]		5.00 - 5.15	11.50 - 12.50	23.00 - 25.00	23.00 - 25.00	
	OVERCURRENT PROTECTION		Works over 105% of rating (works over 101% of peak current at option -H) and recovers automatically				
PROTECTION	OVERVOLTAGE PROTECTION		5.75 - 7.00	13.80 - 16.80	27.60 - 35.00	27.60 - 35.00	
CIRCUIT AND	OPERATING INDICATION		Not provided				
OTHERS	REMOTE SENSING		Not provided				
	REMOTE ON/OFF		Not provided				
ISOLATION	INPUT-OUTPUT		AC2,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (At Room Temperature)				
	INPUT-FG		AC2,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (At Room Temperature)				
	OUTPUT-FG		AC500V 1minute, Cutoff current = 25mA, DC500V 50M Ω min (At Room Temperature)				
ENVIRONMENT	OPERATING TEMP.,HUMID.AND ALTITUDE		-10 to +60°C, 20 - 90%RH (Non condensing) (Refer to DERATING CURVE), 3,000m (10,000feet) max				
	STORAGE TEMP.,HUMID.AND ALTITUDE						
	VIBRATION		10 - 55Hz, 19.6m/s ² (2G), 3minutes period, 60minutes each along X, Y and Z axis				
	IMPACT		196.1m/s ² (20G), 11ms, once each X, Y and Z axis				
	AGENCY APPROVALS		UL60950-1, C-UL (CSA60950-1), EN60950-1 Complies with DEN-AN				
	CE MARKING		Low Voltage Directive				
	CONDUCTED NOISE		Complies with FCC-B, VCCI-B, CISPR-B, EN55011-B, EN55022-B				
	CASE SIZE/WEIGHT		62×35.5×155mm (W×H×	D) / 300g max (without chase	sis and cover)		
	COOLING METHOD		Convection				

This is the value that measured on measuring board with capacitor of 22 µ F at 150mm from output terminal.

*2

Measured by 20MHz oscilloscope or Ripple-Noise meter (Equivalent to KEISOKU-GIKEN: RM-103). Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25°C, with the input voltage held constant at the rated input/output.

Peak loading for 10sec.And Duty 35% max.or less is acceptable if the total wattage is less than the rated wattage. *3

Refer to instruction Manual 5. In detail. Avoid prolonged use under over - load.

Parallel operation with other model is not possible.

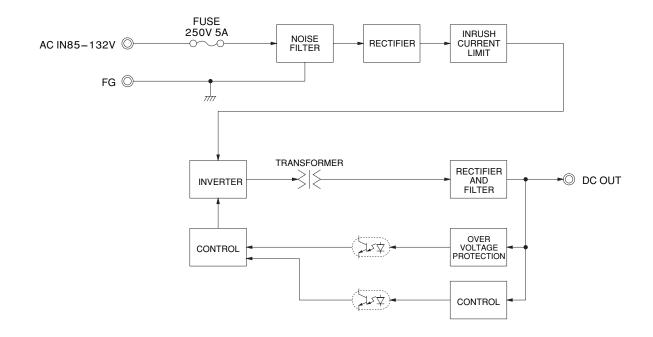
Derating is required when operated with chassis and cover.

A sound may occur from power supply at pulse loading.

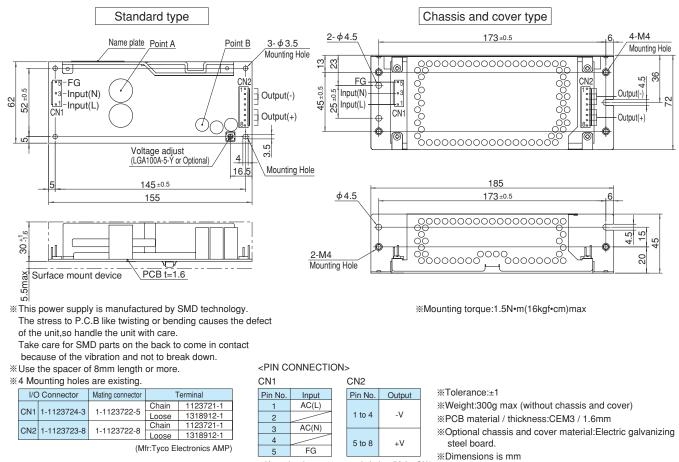
E-86

LGA100A | CO\$EL

Block diagram



External view



%I/O Connector is Mfr Tyco Electronics AMP %Option:-J1:VH(J.S.T) connector type.

Refer to instruction Manual 5.

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%Keep drawing current per pin below 5A for CN2.

LGA