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## LCA100S



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Features

Small and compact PCB construction UL recognized, CSA certified Built-in Inrush Current Protection RoHS Compliant

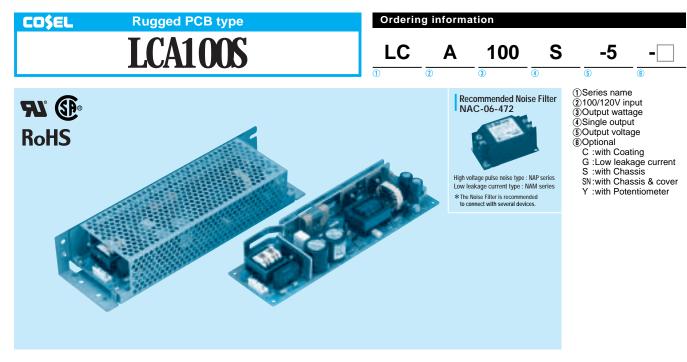
Safety Agency Approvals Complies with DEN-AN UL1950, CSA C22.2 No.234

#### EMI Compliance

FCC-B VCCI-B

2 year warranty(refer to Instruction Manual)

Model	Input Voltage [V]	Output Wattage [W]	DC Output [V/A]		
LCA100S-3	DC 110 - 170 AC 85 - 132	60	3V 20A		
LCA100S-5	DC 110 - 170 AC 85 - 132	100	5V 20A		
LCA100S-12	DC 110 - 170 AC 85 - 132	102	12V 8.5A		
LCA100S-15	DC 110 - 170 AC 85 - 132	105	15V 7A		
LCA100S-24	DC 110 - 170 AC 85 - 132	103.2	24V 4.3A		
LCA100S-24- H	DC 110 - 170 AC 85 - 132	103.2 (peak 168)	24V 4.3A (peak 7A)		
LCA100S-36	DC 110 - 170 AC 85 - 132	108	36V 3A		
LCA100S-48	DC 110 - 170 AC 85 - 132	105.6	48V 2.2A		



MODEL	LCA100S-3	LCA100S-5	LCA100S-12	LCA100S-15	LCA100S-24	LCA100S-24-H	LCA100S-36	LCA100S-48
MAX OUTPUT WATTAGE[W]	60	100	102	105	103.2	103.2	108	105.6
DC OUTPUT	3V 20A	5V 20A	12V 8.5A	15V 7A	24V 4.3A	24V 4.3A	36V 3A	48V 2.2A

### **SPECIFICATIONS**

	MODEL		LCA100S-3	LCA100S-5	LCA100S-12	LCA100S-15	LCA100S-24	LCA100S-24-H	LCA100S-36	LCA100S-4
	VOLTAGE[V]		AC85 - 132 1 φ or DC110 - 170							
INPUT	CURRENT[A] ACIN 100V		2.5typ (lo=100%)							
	FREQUENCY[Hz]		47 - 440 or DC							
	EFFICIENCY[%]		74typ	79typ	83typ	84typ	85typ	85typ	85typ	85typ
	INRUSH CURRENT[A] ACIN 100V		15typ (lo=100%)							
	LEAKAGE CURRENT[mA]		0.5max (60Hz, According to UL, CSA and DEN-AN)							
-	VOLTAGE[V]		3	5	12	15	24	24	36	48
	CURRENT[A]	*3	20	20	8.5	7	4.3	4.3 (Peak 7)	3	2.2
	LINE REGULATION[mV]		20max	20max	48max	60max	96max	96max	144max	192max
	LOAD REGULATION[mV]		40max	40max	100max	120max	150max	150max	240max	300max
		0 to +50℃ *1	80max	80max	120max	120max	120max	120max	150max	150max
	RIPPLE[mVp-p]	-10 - 0°C *1	140max	140max	160max	160max	160max	160max	200max	200max
Ουτρυτ	RIPPLE NOISE[mVp-p]	0 to +50°C *1	120max	120max	150max	150max	150max	250max	250max	350max
		-10 - 0°C *1	160max	160max	180max	180max	180max	280max	300max	400max
	TEMPERATURE REGULATION[mV]	0 to +50℃	50max	50max	120max	150max	240max	240max	360max	480max
		-10 to +50℃	60max	60max	150max	180max	290max	290max	450max	600max
	DRIFT[mV] *2		20max	20max	48max	60max	96max	96max	144max	192max
	START-UP TIME[ms]		200max (ACIN 85V, Io=100%)							
	HOLD-UP TIME[ms]		10typ (ACIN 85V, Io=100%) 20typ (ACIN 100V, Io=100%)							
	OUTPUT VOLTAGE ADJUSTMENT RANGE[V]		2.85 - 3.6	4.5 - 5.5	Fixed ("Y"which	can be adjusted	d the output is a	vailable as option	nal: 12, 15, 24, 3	86,48V ±10
	OUTPUT VOLTAGE SET	TING[V]			11.5 - 12.5	14.4 - 15.6	23.0 - 25.0	23.0 - 25.0	34.5 - 37.5	46.0 - 50.0
	OVERCURRENT PROTECTION		Works over 105% of rating (works over 105% of peak current at option -H) and recovers automatically							
PROTECTION	OVERVOLTAGE PROTECTION		4.00 - 5.25V Works at 115 - 140% of rating							
CIRCUIT AND	OPERATING INDICATION		Not provided							
OTHERS	REMOTE SENSING		Not provided							
	REMOTE ON/OFF		Not provided							
	INPUT-OUTPUT		AC2,000V 1minute, Cutoff current = 10mA, DC500V 50M $\Omega$ min (At Room Temperature)							
ISOLATION	INPUT-FG		AC2,000V 1minute, Cutoff current = 10mA, DC500V 50M $\Omega$ min (At Room Temperature)							
	OUTPUT-FG		AC500V 1minute, Cutoff current = 100mA, DC500V 50M $\Omega$ min (At Room Temperature)							
	OPERATING TEMP.,HUMID.AND ALTITUDE		5,							
	STORAGE TEMP.,HUMID.AND ALTITUDE									
	VIBRATION		10 - 55Hz, 19.6m/s <sup>2</sup> (2G), 3minutes period, 60minutes each along X, Y and Z axis							
	IMPACT		196.1m/s <sup>2</sup> (20G), 11ms, once each X, Y and Z axis							
SAFETY AND	AGENCY APPROVALS UL60950-1, CSA C22.2 No.234 Complies with DEN-AN									
REGULATIONS	CONDUCTED NOISE		Complies with FCC-B, VCCI-B							
OTHERS	CASE SIZE/WEIGHT		62 × 32 × 222	mm (W×H×D	) / 370g max (v	vithout chassis	and cover)			
OTHERS	COOLING METHOD		Convection							

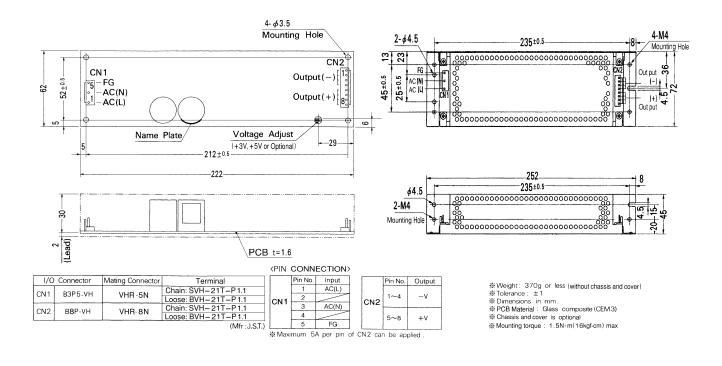
\*1 Measured by 20MHz oscilloscope or Ripple-Noise meter(equivalent to KEISOKU-GIKEN : RM101).
\*2 Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25°C with the input voltage held constant at the rated input/output.
\*3 Peak load for 20 sec. or less is acceptable(The average current has to be less than the rated current).

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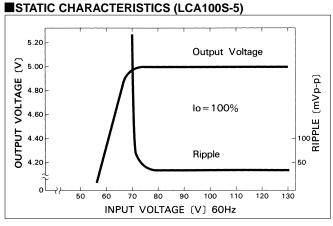
Derating is required when operated with chassis and cover.



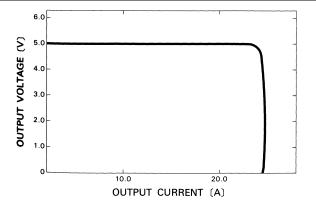
**External view** 



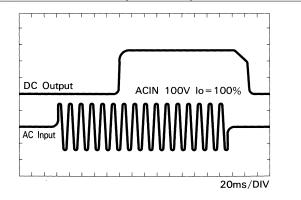
#### Performance data



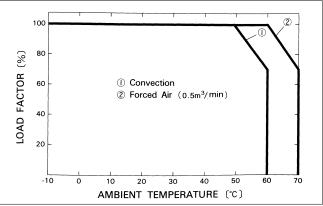
#### OVERCURRENT CHARACTERISTICS (LCA100S-5)



#### RISE TIME & FALL TIME (LCA100S-5)



#### DERATING CURVE



LCA