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LCA50S



Features

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

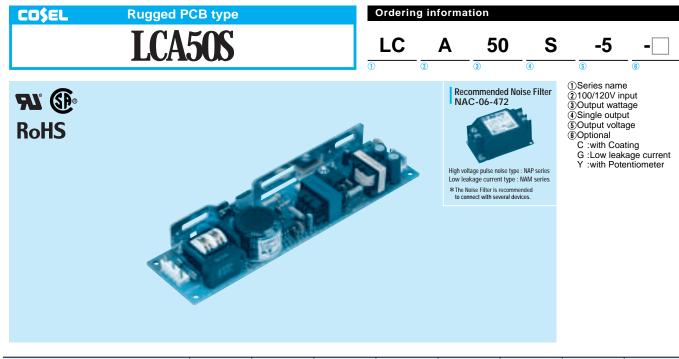
Safety Agency Approvals Complies with DEN-AN UL1950, CSA C22.2 No.234

EMI Compliance

FCC-B VCCI-B

2 year warranty(refer to Instruction Manual)

Model	Input Voltage [V]	Output Wattage [W]	DC Output [V/A]		
LCA50S-3	DC 110 - 170 AC 85 - 132	30	3V 10A		
LCA50S-5	DC 110 - 170 AC 85 - 132	50	5V 10A		
LCA50S-12	DC 110 - 170 AC 85 - 132	51.6	12V 4.3A		
LCA50S-15	DC 110 - 170 AC 85 - 132	52.5	15V 3.5A		
LCA50S-24	DC 110 - 170 AC 85 - 132	60	24V 2.5A		
LCA50S-24-H	DC 110 - 170 AC 85 - 132	60 (peak 72)	24V 2.5A (peak 3A)		
LCA50S-36	DC 110 - 170 AC 85 - 132	61.2	36V 1.7A		
LCA50S-48	DC 110 - 170 AC 85 - 132	62.4	48V 1.3A		



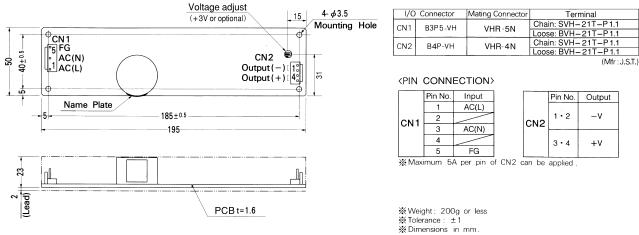
MODEL	LCA50S-3	LCA50S-5	LCA50S-12	LCA50S-15	LCA50S-24	LCA50S-24-H	LCA50S-36	LCA50S-48
MAX OUTPUT WATTAGE[W]	30	50	51.6	52.5	60	60	61.2	62.4
DC OUTPUT	3V 10A	5V 10A	12V 4.3A	15V 3.5A	24V 2.5A	24V 2.5A	36V 1.7A	48V 1.3A

SPECIFICATIONS

	MODEL		LCA50S-3	LCA50S-5	LCA50S-12	LCA50S-15	LCA50S-24	LCA50S-24-H	LCA50S-36	LCA50S-4
	VOLTAGE[V]		AC85 - 132 1 φ or DC110 - 170							
INPUT	CURRENT[A] ACIN 100V		1.3typ (lo=100%)							
	FREQUENCY[Hz]		47 - 440 or DC							
	EFFICIENCY[%]		71typ	78typ	80typ	81typ	82typ	82typ	82typ	82typ
	INRUSH CURRENT[A] ACIN 100V		30typ (lo=100%) (At cold start)							
	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	10	10	4.3	3.5	2.5	2.5 (Peak 3)	1.7	1.3
	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℃ *1	140max	140max	160max	160max	160max	160max	200max	200max
	RIPPLE NOISE[mVp-p]	0 to +50℃ *1	120max	120max	150max	150max	150max	150max	250max	350max
OUTPUT		-10 - 0℃ *1	160max	160max	180max	180max	180max	180max	300max	400max
	TEMPERATURE REGULATION[mV]	0 to +50℃		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]									
	OUTPUT VOLTAGE SET	TING[V]		4.9 - 5.3	11.5 - 12.5	14.4 - 15.6	23.0 - 25.0	23.0 - 25.0	34.5 - 37.5	46.0 - 50.
	OVERCURRENT PROTECTION									
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							
H	INPUT-OUTPUT		AC2,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (At Room Temperature)							
			AC2,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (At Room Temperature)							
	OUTPUT-FG		AC500V 1minute, Cutoff current = 100mA, DC500V 50M Ω min (At Room Temperature)							
ļ	OPERATING TEMP., HUMID.AND	-								
ENVIRONMENT			3,							
	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							
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		50×25×195	mm (WXHXD	0) / 200g max					
UTHERS	COOLING METHOD		Convection							

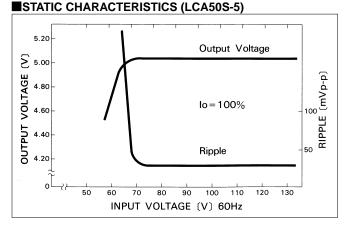
*1 Measured by 20MHz oscilloscope or Ripple-Noise meter(equivalent to KEISOKU-GIKEN : RM101).
*2 Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25°C with the input voltage held constant at the rated input/output.
*3 Peak load for 10 sec. or less is acceptable(The average current has to be less than the rated current).



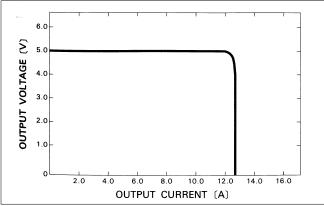


Dimensions in mm. PCB Material : Glass composite (CEM3)

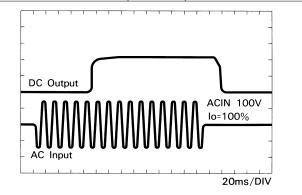
Performance data



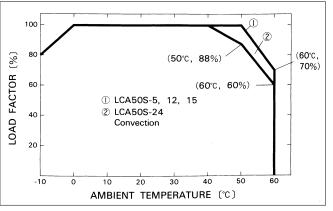
OVERCURRENT CHARACTERISTICS (LCA50S-5)



RISE TIME & FALL TIME (LCA50S-5)



DERATING CURVE



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