LCA50S



RoHS 244:

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

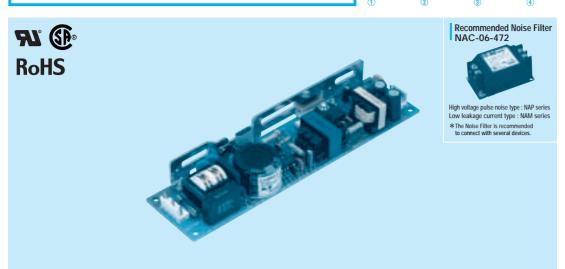
EMI Compliance FCC-B

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	170 (neak 72)		
LCA50S-36	DC 110 - 170 AC 85 - 132	61.2	36V 1.7A	
LCA50S-48	DC 110 - LCA50S-48 170 AC 85 - 132		48V 1.3A	

50



- ①Series name ②100/120V input ③Output wattage ④Single output
- Output voltage
 Optional
 C :with Coating

 - G :Low leakage current
- Y :with Potentiometer

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

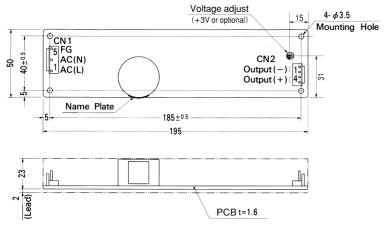
	MODEL		LCA50S-3	LCA50S-5	LCA50S-12	LCA50S-15	LCA50S-24	LCA50S-24-H	LCA50S-36	LCA50S-48
	VOLTAGE[V]		AC85 - 132 1	φ or DC110 -	170					
	CURRENT[A]	ACIN 100V	1.3typ (lo=100%)							
INPLIT	FREQUENCY[Hz]		47 - 440 or DC							
	EFFICIENCY[%]		71typ	78typ	80typ	81typ	82typ	82typ	82typ	82typ
	INRUSH CURRENT[A] 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	l[mV]	40max	40max	100max	120max	150max	150max	240max	300max
	DIDDI EtV1	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
	DIDDLE NOISEIMA	0 to +50℃ *1	120max	120max	150max	150max	150max	150max	250max	350max
OUTPUT	RIPPLE NOISE[mVp-p]	-10 - 0℃ *1	160max	160max	180max	180max	180max	180max	300max	400max
		0 to +50°C	50max	50max	120max	150max	240max	240max	360max	480max
	TEMPERATURE REGULATION[mV]	-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]	1	200max (ACIN 85V, Io=100%)							
	HOLD-UP TIME[ms]		10typ (ACIN	10typ (ACIN 85V, Io=100%) 20typ (ACIN 100V, Io=100%)						
	OUTPUT VOLTAGE ADJUSTMEN	T VOLTAGE ADJUSTMENT RANGE[V]		2.85 - 3.6 Fixed ("Y"which can be adjusted the output is available as optional: 5, 12, 15, 24, 36, 48V ±10%)						
	OUTPUT VOLTAGE SETTING[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 PROT	ECTION	4.00 - 5.25V	Works at 115	5 - 140% of rati	ng	•			•
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 Ω min (At Room Temperature)							
ISOLATION	INPUT-FG		AC2,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (At Room Temperature)							
	OUTPUT-FG		AC500V 1minute, Cutoff current = 100mA, DC500V 50MΩ min (At Room Temperature)							
	OPERATING TEMP.,HUMID.AND ALTITUDE		-10 to +60℃, 20 - 90%RH (Non condensing) (Refer to DERATING CURVE), 3,000m (10,000feet) max							
ENVIRONMENT	STORAGE TEMP. HUMID. AND ALTITUDE		-20 to +75°C, 20 - 90%RH (Non condensing), 9,000m (30,000feet) max							
	VIBRATION		10 - 55Hz, 19.6m/s² (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 APPROVA	LS	UL60950-1, CSA C22.2 No.234 Complies with DEN-AN							
NOISE REGULATIONS	CONDUCTED NOISE	.	Complies with FCC-B, VCCI-B							
	CASE SIZE/WEIGHT			mm (W×H×D						
OTHERS F	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).





External view



I/O Connector		Mating Connector	Terminal	
CN1	B3P5-VH	VHR-5N	Chain: SVH-21T-P1.1	
CIVI			Loose: BVH-21T-P1.1	
CN2 E	B4P-VH	VHR-4N	Chain: SVH-21T-P1.1	
	D-#1 V11		Loose: BVH-21T-P1.1	
			(Mfr:J.S.T.	

(PIN CONNECTION)

	Pin No.	Input		Pin No.	Output
CN1	1	AC(L)		1 • 2	-v
	2		CN2		
	3	AC(N)	CNZ		+V
	4			3 • 4	
	5	FG			

*Maximum 5A per pin of CN2 can be applied.

※Weight: 200g or less

★ Tolerance : ± 1
 ★ Dimensions in mm.
 ★ PCB Material : Glass composite (CEM3)

Performance data

