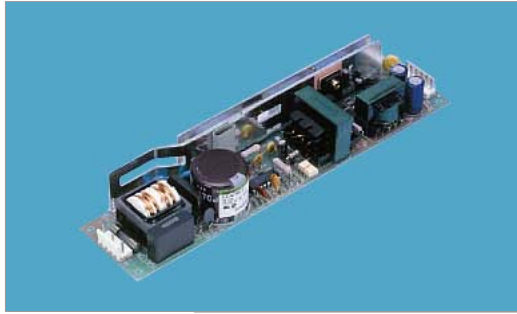


## LCA75S



### 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

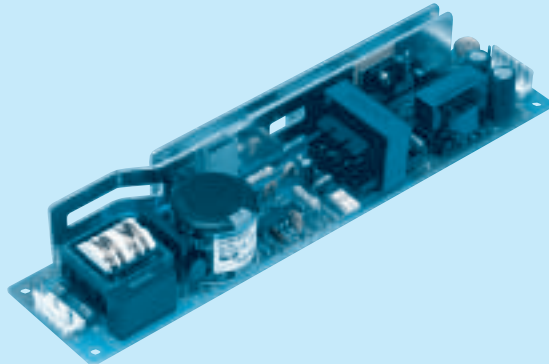
**2 year warranty(refer to Instruction Manual)**

Model	Input Voltage [V]	Output Wattage [W]	DC Output [V/A]
LCA75S-3	DC 110 - 170 AC 85 - 132	45	3V 15A
LCA75S-5	DC 110 - 170 AC 85 - 132	75	5V 15A
LCA75S-12	DC 110 - 170 AC 85 - 132	75.6	12V 6.3A
LCA75S-15	DC 110 - 170 AC 85 - 132	75	15V 5A
LCA75S-24	DC 110 - 170 AC 85 - 132	76.8	24V 3.2A
LCA75S-24-H	DC 110 - 170 AC 85 - 132	76.8 (peak 100.8)	24V 3.2A (peak 4.2A)
LCA75S-36	DC 110 - 170 AC 85 - 132	75.6	36V 2.1A
LCA75S-48	DC 110 - 170 AC 85 - 132	76.8	48V 1.6A

# LCA75S

LC A 75 S -5 -□

① ② ③ ④ ⑤ ⑥



Recommended Noise Filter  
NAC-06-472



High voltage pulse noise type : NAP series  
Low leakage current type : NAM series  
\*The Noise Filter is recommended to connect with several devices.

- ① Series name
- ② 100/120V input
- ③ Output wattage
- ④ Single output
- ⑤ Output voltage
- ⑥ Optional
- C :with Coating
- G :Low leakage current
- Y :with Potentiometer

MODEL	LCA75S-3	LCA75S-5	LCA75S-12	LCA75S-15	LCA75S-24	LCA75S-24-H	LCA75S-36	LCA75S-48
MAX OUTPUT WATTAGE[W]	45	75	75.6	75	76.8	76.8	75.6	76.8
DC OUTPUT	3V 15A	5V 15A	12V 6.3A	15V 5A	24V 3.2A	24V 3.2A	36V 2.1A	48V 1.6A

## SPECIFICATIONS

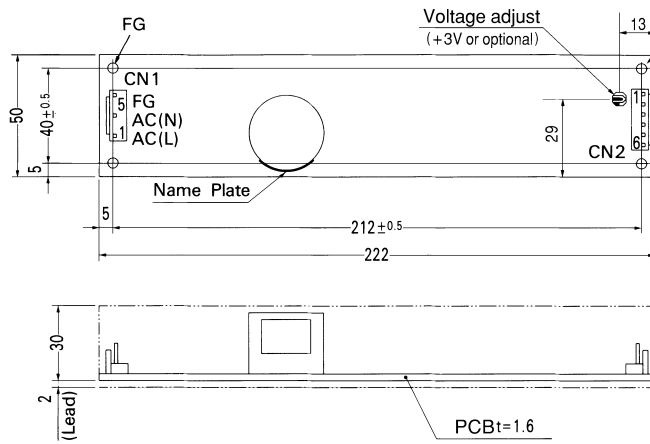
	MODEL	LCA75S-3	LCA75S-5	LCA75S-12	LCA75S-15	LCA75S-24	LCA75S-24-H	LCA75S-36	LCA75S-48	
LCA INPUT	VOLTAGE[V]	AC85 - 132 1 φ or DC110 - 170								
	CURRENT[A]	ACIN 100V 1.9typ (Io=100%)								
	FREQUENCY[Hz]	47 - 440 or DC								
	EFFICIENCY[%]	72typ	79typ	81typ	83typ	84typ	84typ	84typ	84typ	
	INRUSH CURRENT[A]	ACIN 100V 30typ (Io=100%) (At cold start)								
	LEAKAGE CURRENT[ma]	0.5max (60Hz, According to UL, CSA and DEN-AN)								
OUTPUT	VOLTAGE[V]	3	5	12	15	24	24	36	48	
	CURRENT[A]	*3 15	15	6.3	5	3.2	3.2 (Peak 4.2)	2.1	1.6	
	LINE REGULATION[mV]	20max	20max	48max	60max	96max	96max	144max	192max	
	LOAD REGULATION[mV]	40max	40max	100max	120max	150max	150max	240max	300max	
	RIPPLE[mVp-p]	0 to +50C *1	80max	80max	120max	120max	120max	120max	150max	150max
		-10 - 0C *1	140max	140max	160max	160max	160max	160max	200max	200max
	RIPPLE NOISE[mVp-p]	0 to +50C *1	120max	120max	150max	150max	150max	150max	250max	350max
		-10 - 0C *1	160max	160max	180max	180max	180max	180max	300max	400max
	TEMPERATURE REGULATION[mV]	0 to +50C	50max	50max	120max	150max	240max	240max	360max	480max
		-10 to +50C	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	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 - 50.0		
PROTECTION CIRCUIT AND OTHERS	OVERCURRENT PROTECTION	Works over 105% of rating (works over 105% of peak current at option -H) and recovers automatically								
	OVERVOLTAGE PROTECTION	4.00 - 5.25V Works at 115 - 140% of rating								
	OPERATING INDICATION	Not provided								
	REMOTE SENSING	Not provided								
ISOLATION	INPUT-OUTPUT	AC2,000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (At Room Temperature)								
	INPUT-FG	AC2,000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (At Room Temperature)								
	OUTPUT-FG	AC500V 1minute, Cutoff current = 100mA, DC500V 50MΩ min (At Room Temperature)								
ENVIRONMENT	OPERATING TEMP., HUMID. AND ALTITUDE	-10 to +65°C, 20 - 90%RH (Non condensing) (Refer to DERATING CURVE), 3,000m (10,000feet) max								
	STORAGE TEMP., HUMID. AND ALTITUDE	-20 to +75°C, 20 - 90%RH (Non condensing), 9,000m (30,000feet) max								
	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 NOISE REGULATIONS	AGENCY APPROVALS	UL60950-1, CSA C22.2 No.234 Complies with DEN-AN								
	CONDUCTED NOISE	Complies with FCC-B, VCCI-B								
OTHERS	CASE SIZE/WEIGHT	50 X 32 X 222mm (W X H X D) / 300g max								
	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



4-φ3.5  
Mounting Hole

	I/O Connector	Mating Connector	Terminal
Output (-)			
Output (+)			
CN1	B3P5-VH	VHR-5N	Chain: SVH-21T-P1.1 Loose: BVH-21T-P1.1
CN2	B6P-VH	VHR-6N	Chain: SVH-21T-P1.1 Loose: BVH-21T-P1.1

(Mfr.: J.S.T.)

<PIN CONNECTION>

Pin No.	Input
1	AC(L)
2	
3	AC(N)
4	
5	FG

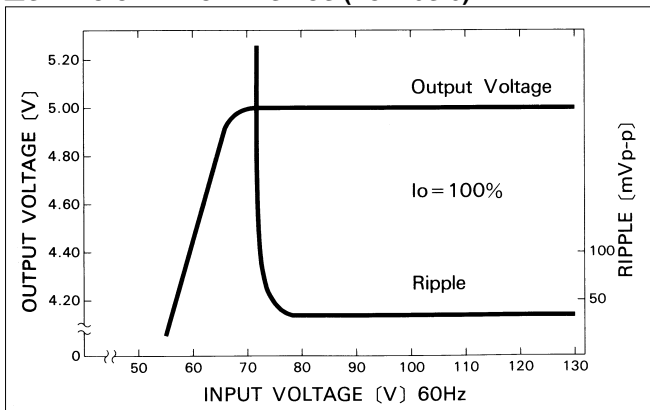
Pin No.	Output
1~3	-V
4~6	+V

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

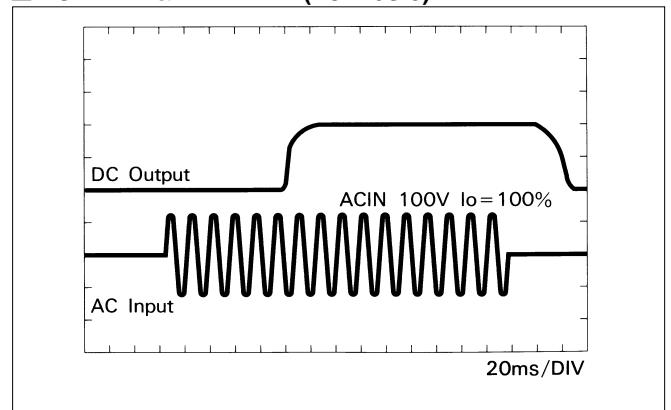
- ※Weight : 300g or less
- ※Tolerance : ±1
- ※Dimensions in mm.
- ※PCB Material : Glass composite (CEM3)

Performance data

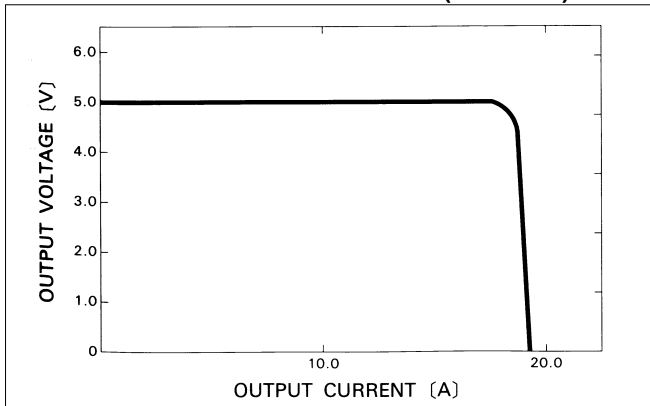
■STATIC CHARACTERISTICS (LCA75S-5)



■RISE TIME & FALL TIME (LCA75S-5)



■OVERCURRENT CHARACTERISTICS (LCA75S-5)



■DERATING CURVE

