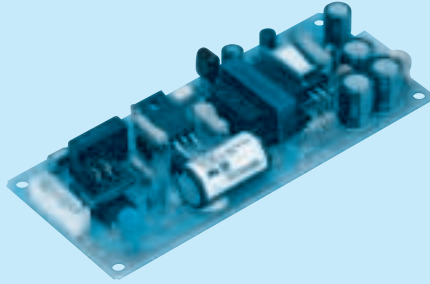


LCA15S

LC A 15 S -5 -□

① ② ③ ④ ⑤ ⑥



Recommended EMI/EMC Filter
NAC-06-472



High voltage pulse noise type : NAP series
Low leakage current type : NAM series
*The EMI/EMC 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 *3
- C :with Coating
- G :Low leakage current
- Y :with Potentiometer

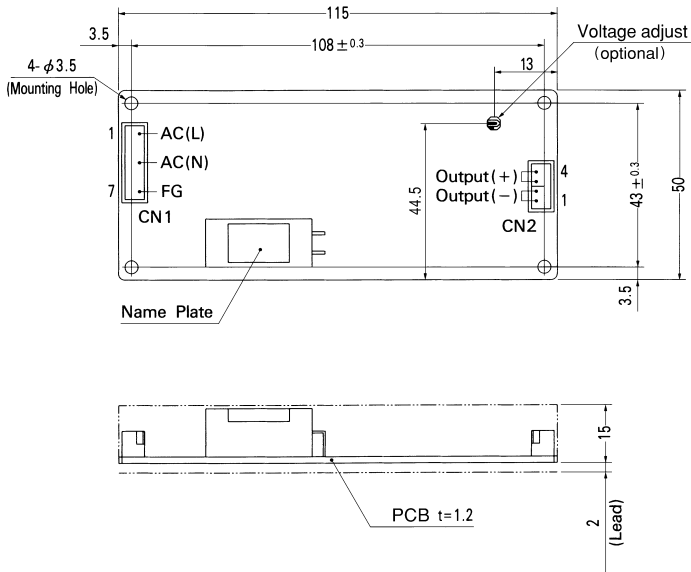
MODEL	LCA15S-5	LCA15S-12	LCA15S-15	LCA15S-24
MAX OUTPUT WATTAGE[W]	15	15.6	15	16.8
DC OUTPUT	5V 3A	12V 1.3A	15V 1A	24V 0.7A

SPECIFICATIONS

	MODEL	LCA15S-5	LCA15S-12	LCA15S-15	LCA15S-24	
INPUT	VOLTAGE[V]	AC85 - 132 1 φ or DC110 - 170				
	CURRENT[A]	ACIN 100V	0.4typ (Io=100%)			
	FREQUENCY[Hz]	47 - 440 or DC				
	EFFICIENCY[%]	72typ		75typ		
	INRUSH CURRENT[A]	ACIN 100V	20typ (Io=100%) (At cold start)			
	LEAKAGE CURRENT[ma]	0.5max (60Hz, According to UL, CSA and DEN-AN)				
OUTPUT	VOLTAGE[V]	5	12	15	24	
	CURRENT[A]	3	1.3	1	0.7	
	LINE REGULATION[mV]	20max	48max	60max	96max	
	LOAD REGULATION[mV]	40max	100max	120max	150max	
	RIPPLE[mVp-p]	0 to +50°C *1	80max	120max	120max	120max
		-10 - 0°C *1	140max	160max	160max	160max
	RIPPLE NOISE[mVp-p]	0 to +50°C *1	120max	150max	150max	150max
		-10 - 0°C *1	160max	180max	180max	180max
	TEMPERATURE REGULATION[mV]	50max	120max	150max	240max	
	DRIFT[mV]	*2	20max	48max	60max	96max
	START-UP TIME[ms]	100max (ACIN 85V, Io=100%)				
HOLD-UP TIME[ms]	10typ (ACIN 85V, Io=100%) 20typ (ACIN 100V, Io=100%)					
OUTPUT VOLTAGE ADJUSTMENT RANGE[V]	Fixed ("Y"which can be adjusted the output is available as optional:5V -5 to +10% : 12, 15, 24V ±10%)					
OUTPUT VOLTAGE SETTING[V]	4.9 - 5.3	11.5 - 12.5	14.4 - 15.6	23.0 - 25.0		
PROTECTION CIRCUIT AND OTHERS	OVERCURRENT PROTECTION	Works over 105% of rating and recovers automatically				
	OVERVOLTAGE PROTECTION	Works over 115% of rating, by zener diode clamping				
	OPERATING INDICATION	Not provided				
	REMOTE SENSING	Not provided				
	REMOTE ON/OFF	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 +60°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 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 NOISE REGULATIONS	AGENCY APPROVALS	UL60950-1, CSA C22.2 No.60950-1 Complies with DEN-AN				
	CONDUCTED NOISE	Complies with FCC-B, VCCI-B				
OTHERS	CASE SIZE/WEIGHT	50 X 17 X 115mm (W X H X D) / 80g 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 a eight hour period after a half-hour warm-up at 25°C with the input voltage held constant at the rated input/output.
 *3 Please contact us about safety approvals for the model with option.
 * Avoid prolonged use under over-load.

External view



I/O Connector	Mating Connector	Terminal
CN1	B3(7.5)B-XH-A	XHP-7
		Chain: SXH-001T-P0.6
		Loose: BXH-001T-P0.6
CN2	B4B-XH-A	XHP-4
		Chain: SXH-001T-P0.6
		Loose: BXH-001T-P0.6

(Mfr.: J.S.T.)

<PIN CONNECTION>

Pin No.	Input
1	AC(L)
2	
3	
4	AC(N)
5	
6	
7	FG

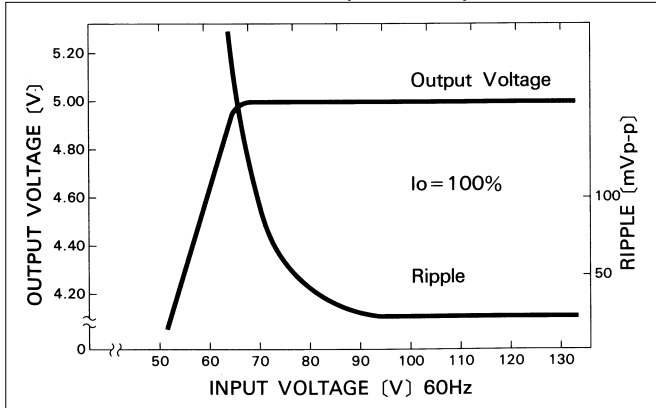
Pin No.	Output
1, 2	-V
3, 4	+V

*Maximum 2A per pin of CN2 can be applied.

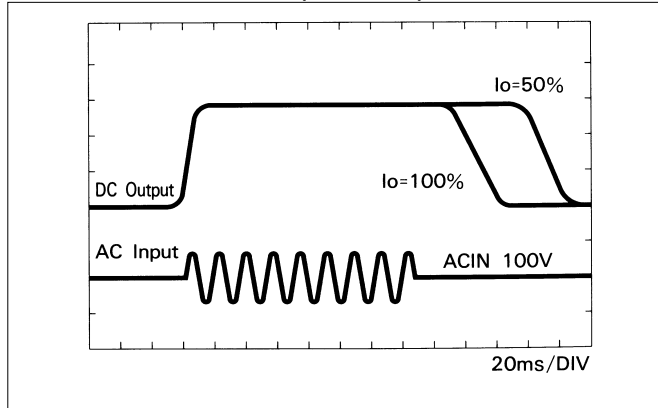
- *Weight: 80g or less
- *Tolerance: ±1
- *Dimensions in mm.
- *PCB Material: Glass composite (CEM3)

Performance data

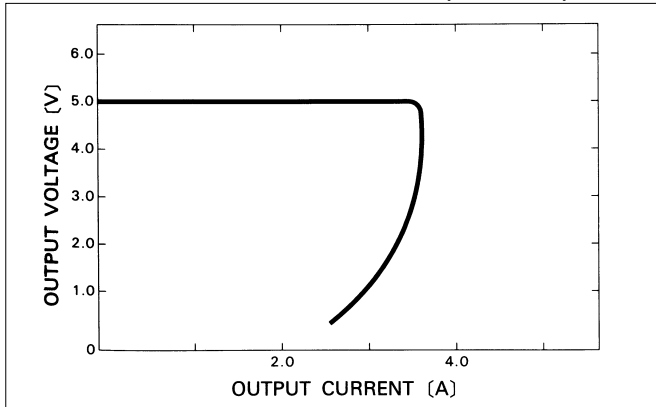
■ STATIC CHARACTERISTICS (LCA15S-5)



■ RISE TIME & FALL TIME (LCA15S-5)



■ OVERCURRENT CHARACTERISTICS (LCA15S-5)



■ DERATING CURVE

