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LCA15S



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

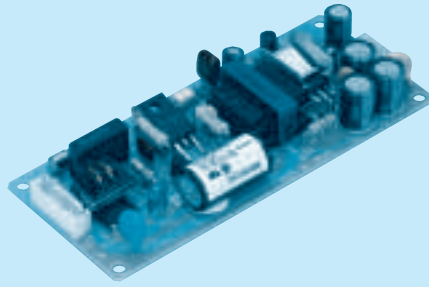
- FCC-B
- VCCI-B

2 year warranty(refer to Instruction Manual)

Model	Input Voltage [V]	Output Wattage [W]	DC Output [V/A]
LCA15S-5	DC 110 - 170 AC 85 - 132	15	5V 3A
LCA15S-12	DC 110 - 170 AC 85 - 132	15.6	12V 1.3A
LCA15S-15	DC 110 - 170 AC 85 - 132	15	15V 1A
LCA15S-24	DC 110 - 170 AC 85 - 132	16.8	24V 0.7A

LC A 15 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	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

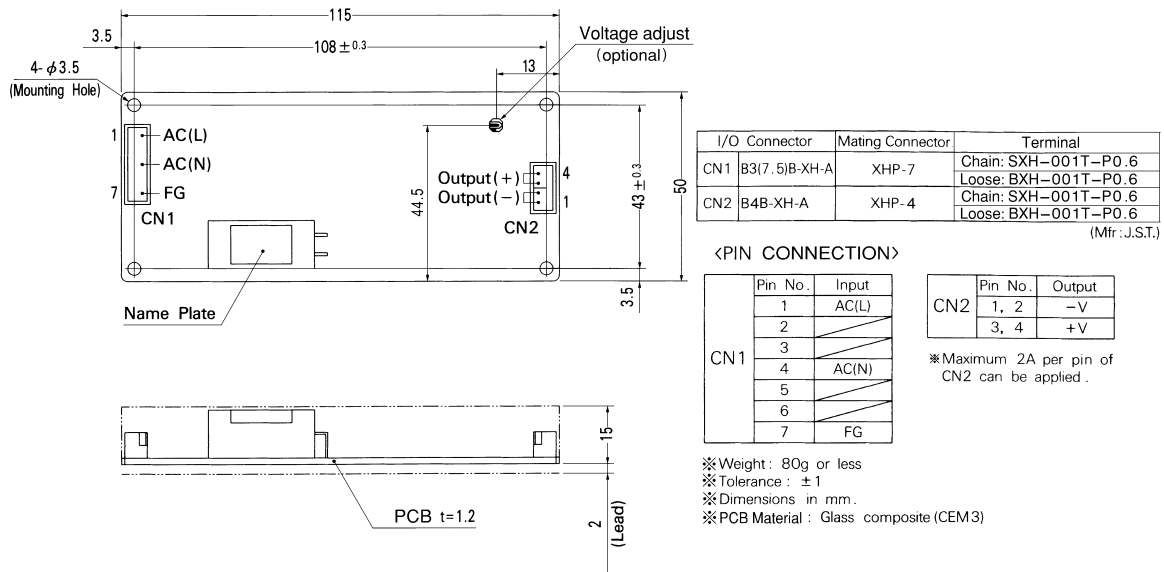
	MODEL	LCA15S-5	LCA15S-12	LCA15S-15	LCA15S-24	
INPUT	VOLTAGE[V]	AC85 - 132 1 φ or DC110 - 170				
	CURRENT[A]	ACIN 100V	0.4typ (Io=100%)			
	FREQUENCY[Hz]	47 - 440 or DC				
	EFFICIENCY[%]	72typ	75typ	75typ	78typ	
	INRUSH CURRENT[A]	ACIN 100V	20typ (Io=100%) (At cold start)			
	LEAKAGE CURRENT[ma]	0.5max (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.234 Complies with DEN-AN				
	CONDUCTED NOISE	Complies with FCC-B, VCCI-B				
OTHERS	CASE SIZE/WEIGHT	50 × 17 × 115mm (W × H × 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 an eight hour period after a half-hour warm-up at 25°C with the input voltage held constant at the rated input/output.

* Avoid prolonged use under over-load.

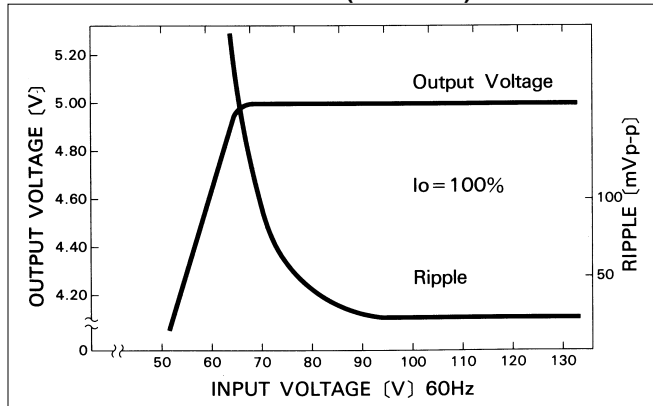
External view



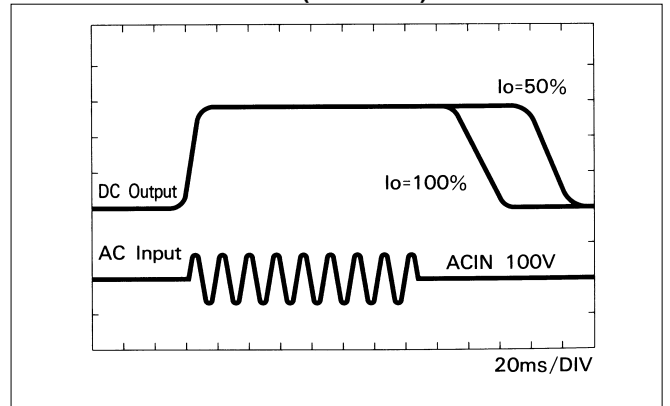
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Performance data

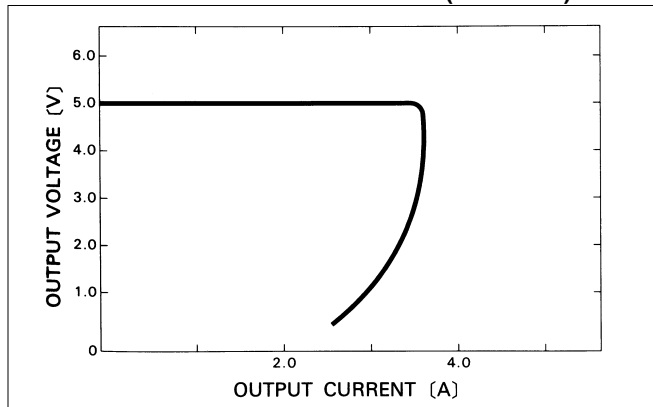
■STATIC CHARACTERISTICS (LCA15S-5)



■RISE TIME & FALL TIME (LCA15S-5)



■OVERCURRENT CHARACTERISTICS (LCA15S-5)



■DERATING CURVE

