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LCA30S



Features

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

Safety Agency Approvals

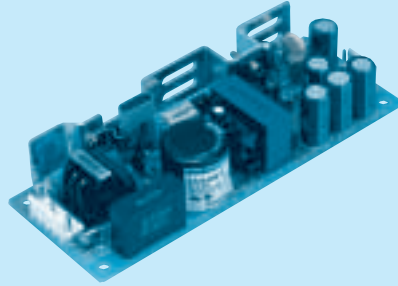
- Complies with DEN-AN
- UL1950, CSA C22.2 No.234

EMI Compliance

- FCC-B
- VCCI-B

2 year warranty(refer to Instruction Manual)

Model	Input Voltage [V]	Output Wattage [W]	DC Output [V/A]
LCA30S-3	DC 110 - 170 AC 85 - 132	18	3V 6A
LCA30S-5	DC 110 - 170 AC 85 - 132	30	5V 6A
LCA30S-12	DC 110 - 170 AC 85 - 132	30	12V 2.5A
LCA30S-15	DC 110 - 170 AC 85 - 132	30	15V 2A
LCA30S-24	DC 110 - 170 AC 85 - 132	31.2	24V 1.3A
LCA30S-36	DC 110 - 170 AC 85 - 132	32.4	36V 0.9A
LCA30S-48	DC 110 - 170 AC 85 - 132	33.6	48V 0.7A



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	LCA30S-3	LCA30S-5	LCA30S-12	LCA30S-15	LCA30S-24	LCA30S-36	LCA30S-48
MAX OUTPUT WATTAGE[W]	18	30	30	30	31.2	32.4	33.6
DC OUTPUT	3V 6A	5V 6A	12V 2.5A	15V 2A	24V 1.3A	36V 0.9A	48V 0.7A

SPECIFICATIONS

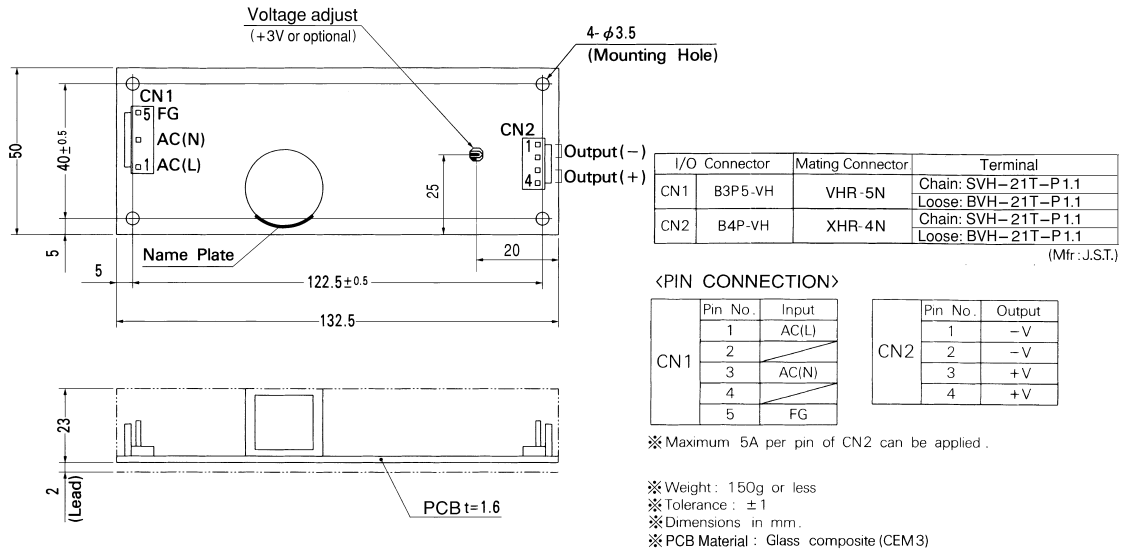
	MODEL	LCA30S-3	LCA30S-5	LCA30S-12	LCA30S-15	LCA30S-24	LCA30S-36	LCA30S-48	
INPUT	VOLTAGE[V]	AC85 - 132 1 φ or DC110 - 170							
	CURRENT[A]	ACIN 100V 0.7typ (Io=100%)							
	FREQUENCY[Hz]	47 - 440 or DC							
	EFFICIENCY[%]	69typ	75typ	80typ	81typ	82typ	80typ	80typ	
	INRUSH CURRENT[A]	ACIN 100V 25typ (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	36	48	
	CURRENT[A]	6	6	2.5	2	1.3	0.9	0.7	
	LINE REGULATION[mV]	20max	20max	48max	60max	96max	144max	192max	
	LOAD REGULATION[mV]	40max	40max	100max	120max	150max	240max	300max	
	RIPPLE[mVp-p]	0 to +50°C *1	80max	80max	120max	120max	120max	150max	150max
		-10 - 0°C *1	140max	140max	160max	160max	160max	200max	200max
	RIPPLE NOISE[mVp-p]	0 to +50°C *1	120max	120max	150max	150max	150max	250max	350max
		-10 - 0°C *1	160max	160max	180max	180max	180max	300max	400max
	TEMPERATURE REGULATION[mV]	50max	50max	120max	150max	240max	360max	480max	
	DRIFT[mV]	*2	20max	20max	48max	60max	96max	144max	192max
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]	2.85 - 3.6	Fixed ("Y" which can be adjusted the output is available as optional: 5V -5 to +10% : 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	34.5 - 37.5	46.0 - 50.0		
PROTECTION CIRCUIT AND OTHERS	OVERCURRENT PROTECTION	Works over 105% of rating and recovers automatically							
	OVERVOLTAGE PROTECTION	4.00V min	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 × 25 × 132.5mm (W × H × D) / 150g 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.

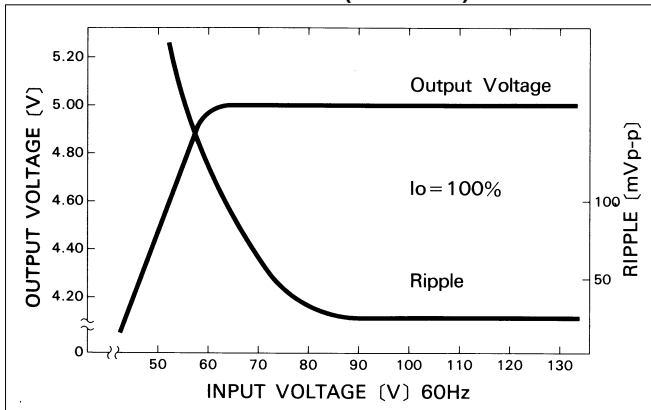
* Avoid prolonged use under over-load.

External view

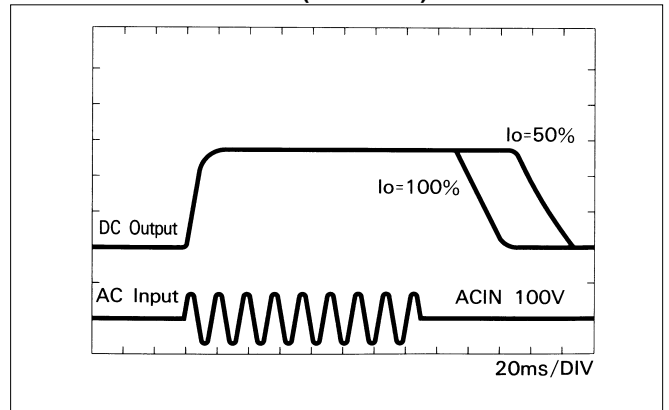


Performance data

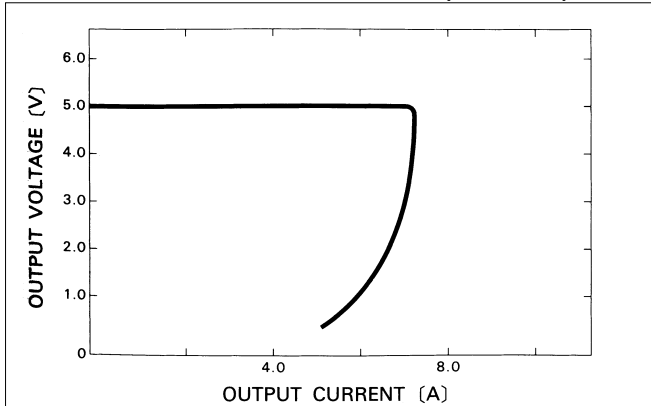
■ STATIC CHARACTERISTICS (LCA30S-5)



■ RISE TIME & FALL TIME (LCA30S-5)



■ OVERCURRENT CHARACTERISTICS (LCA30S-5)



■ DERATING CURVE

