

# LCC30A

LC C 30 A -1 -□

① ② ③ ④ ⑤ ⑥

c  us  
RoHS



- ① Series name
- ② Multiple output
- ③ Output wattage
- ④ 100/120V input
- ⑤ Output voltage combination
- ⑥ Optional \*6  
A :G2 - V3 Common  
C :with Coating  
G :Low leakage current  
Y :with Potentiometer

MODEL		LCC30A-1	LCC30A-2	LCC30A-3	LCC30A-4
DC OUTPUT	V1	5V 3.0(Peak 4.5)A	5V 3.0(Peak 4.5)A	5V 3.0(Peak 4.5)A	3.3V 4.0(Peak 6.0)A
	V2	12V 1.2(Peak 2.0)A	15V 1.0(Peak 2.0)A	24V 0.5(Peak 1.3)A	12V 1.2(Peak 2.0)A
	V3 *1	12V 0.3(Peak 0.45)A	15V 0.3(Peak 0.45)A	5V 0.5(Peak 0.75)A	5V 0.5(Peak 0.75)A

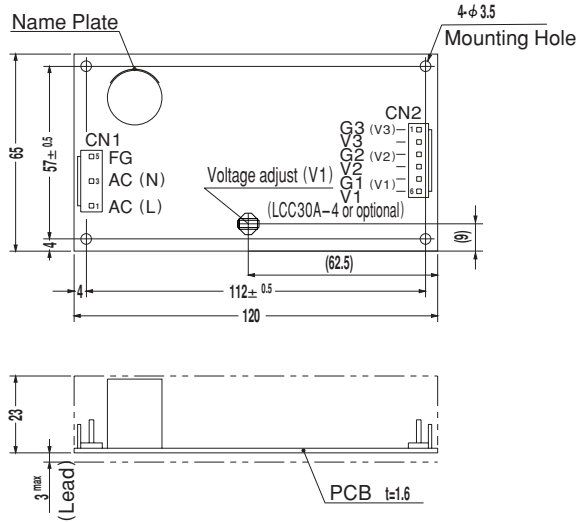
## SPECIFICATIONS

	MODEL	LCC30A-1			LCC30A-2			LCC30A-3			LCC30A-4			
INPUT	VOLTAGE[V]	AC85 - 132 1 φ or DC110 - 170												
	CURRENT[A]	ACIN 100V	0.8typ (Io=100%)											
	FREQUENCY[Hz]	47 - 440 or DC												
	EFFICIENCY[%]	ACIN 100V	72typ (Io=100%)									67typ (Io=100%)		
	INRUSH CURRENT[A]	ACIN 100V	25typ (Io=100%) (At cold start)											
	LEAKAGE CURRENT[ma]	0.5 max (60Hz, by UL and DEN-AN)												
OUTPUT	VOLTAGE[V]	5	12	12	5	15	15	5	24	5	3.3	12	5	
	CURRENT[A]	*2 0-3.0(Peak 4.5)	0-1.2(Peak 2.0)	0-0.3(Peak 0.45)	0-3.0(Peak 4.5)	0-1.0(Peak 2.0)	0-0.3(Peak 0.45)	0-3.0(Peak 4.5)	0-0.5(Peak 1.3)	0-0.5(Peak 0.75)	0-4.0(Peak 6.0)	0-1.2(Peak 2.0)	0-0.5(Peak 0.75)	
	LINE REGULATION[mV]	20max	48max	48max	20max	60max	60max	20max	100max	20max	20max	48max	20max	
	LOAD REGULATION[mV]	100max	120max	150max	100max	120max	150max	100max	150max	100max	40max	120max	100max	
	RIPPLE[mVp-p]	0 to +50°C *3	100max	120max	120max	100max	120max	120max	100max	120max	120max	80max	120max	120max
		-10 - 0°C *3	150max	160max	160max	150max	160max	160max	150max	160max	160max	140max	160max	160max
	RIPPLE NOISE[mVp-p]	0 to +50°C *3	120max	150max	150max	120max	150max	150max	120max	150max	150max	120max	150max	150max
		-10 - 0°C *3	170max	180max	180max	170max	180max	180max	170max	180max	180max	160max	180max	180max
	TEMPERATURE REGULATION[mV]	0 to +50°C	50max	350max	350max	50max	350max	350max	50max	480max	350max	50max	350max	350max
		-10 to +50°C	60max	420max	420max	60max	420max	420max	60max	580max	420max	60max	420max	420max
	DRIFT[mV]	*4	20max	—	—	20max	—	—	20max	—	—	20max	—	—
	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] *5	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed	3.00 - 3.60	Fixed	Fixed
OUTPUT VOLTAGE SETTING[V]	4.9 to 5.3	11.4 to 12.6	11.4 to 12.6	4.9 to 5.3	14.25 to 15.75	14.25 to 15.75	4.9 to 5.3	22.8 to 25.2	4.75 to 5.25	—	11.4 to 12.6	4.75 to 5.25		
PROTECTION CIRCUIT AND OTHERS	OVERCURRENT PROTECTION	Works over 105% of rating and recovers automatically												
	OVERVOLTAGE PROTECTION	Works at 115 - 140% of rating (V1 only)												
	OPERATING INDICATION	Not provided												
	REMOTE SENSING	Not provided												
ISOLATION	REMOTE ON/OFF	Not provided												
	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	OUTPUT-OUTPUT(V1,V2,V3)	AC100V 1minute, Cutoff current = 100mA, DC100V 10MΩ min (At Room Temperature)												
	OPERATING TEMP.,HUMID.AND ALTIITUDE	-10 to +60°C, 20 - 90%RH (Non condensing), 3,000m (10,000feet)												
	STORAGE TEMP.,HUMID.AND ALTIITUDE	-20 to +75°C, 20 - 90%RH (Non condensing), 9,000m (30,000feet)												
	VIBRATION	10 - 55Hz, 19.6m/s <sup>2</sup> (2G), 3minutes period, 60minutes each along X, Y and Z axis												
SAFETY AND NOISE REGULATIONS	IMPACT	196.1m/s <sup>2</sup> (20G), 11ms, once each X, Y and Z axis												
	AGENCY APPROVALS	UL60950-1, C-UL Complies with DEN-AN (At only AC input)												
	CONDUCTED NOISE	Complies with FCC-B, VCCI-B												
OTHERS	CASE SIZE/WEIGHT	65 X 26 X 120mm (W X H X D) / 170g max												
	COOLING METHOD	Convection												

\*1 Because V2 - V3 is isolated, V3 can be as used -VOUT.  
 \*2 Peak load for 10sec. or less is acceptable if the peak total wattage is less than the rated wattage(-1: 33W, -2: 34.5W, -3: 34.5W, -4: 34.5W).When the load of V1 is 0A, other output can be drawn by 80% of rated current.  
 \*3 Measured by 20MHz oscilloscope or Ripple-Noise meter (equivalent to KEISOKU-GIKEN:RM101).

\*4 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.  
 \*5 Adjustment of output voltage for V1 (+5V+5%) is possible (Optional). Please refer to 2.5 minimum output current and 4.2 derating.  
 \*6 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	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

(Mft:J.S.T.)

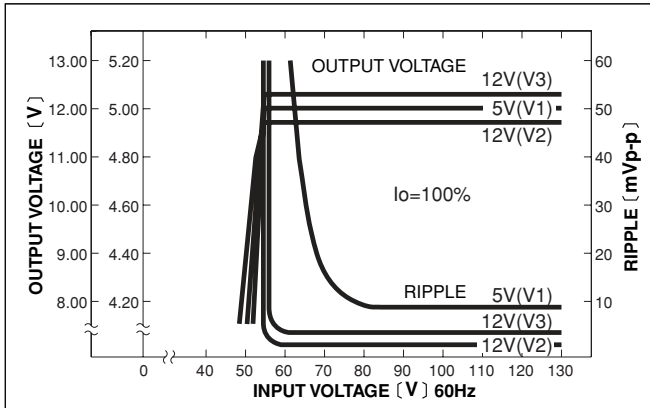
### <PIN CONNECTION>

CN1		CN2	
Pin No	Input	Pin No	Input
1	AC(L)	1	G3
2		2	V3
3	AC(N)	3	G2
4		4	V2
5	FG	5	G1
		6	V1

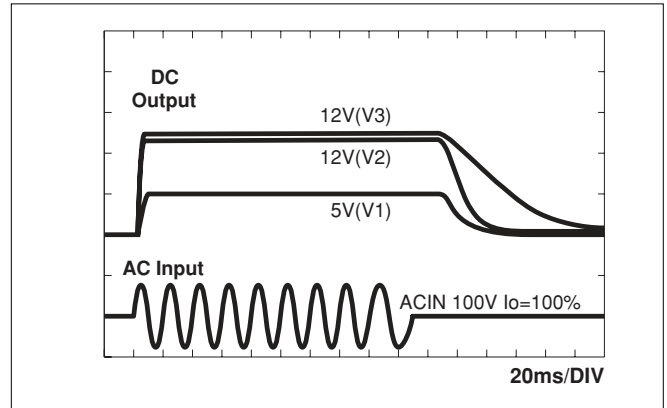
- ※Tolerance : ±1
- ※Weight : 170g or less
- ※PCB Material : Glass composite (CEM3)
- ※Dimensions in mm
- ※Mounting torque : 0.6N·m (6.3kgf·cm) max
- ※All output isolated

## Performance data

### ■STATIC CHARACTERISTICS (LCC30A-1)

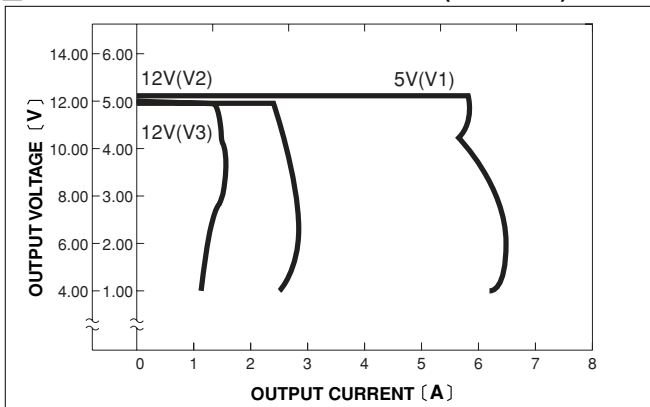


### ■RISE TIME & FALL TIME (LCC30A-1)



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### ■OVERCURRENT CHARACTERISTICS (LCC30A-1)



### ■DERATING CURVE

