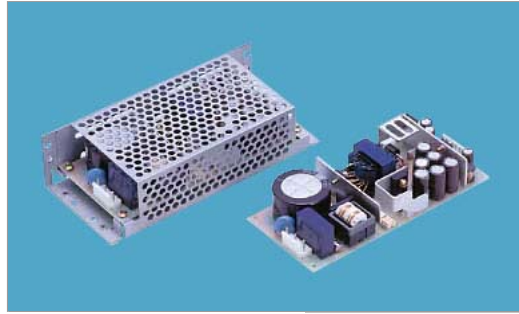


LDC30F



Features

- Universal input (AC85-264V)
- Small and compact PCB construction
- UL recognized, TV approved, CSA certified
- Built-in Inrush Current Protection
- Built-in Over Current Protection
- Built-in Over Voltage Protection
- RoHS Compliant

Safety Agency Approvals

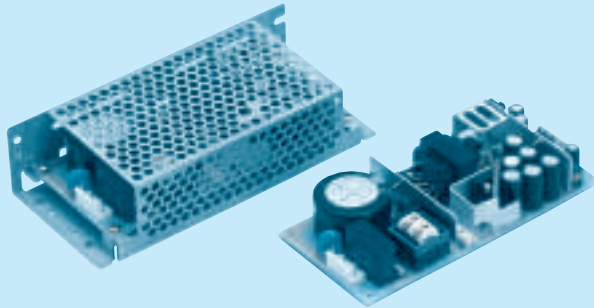
- Complies with DEN-AN
- UL1950, CSA C22.2 No.234, EN60950, VDE0160

EMI Compliance

- FCC-B
- CISPR22-B
- EN55022-B
- VCCI-B

2 year warranty (refer to Instruction Manual)

Model	Input Voltage [V]	Output Wattage [W]	DC Output [V/A]
LDC30F-1	DC 110 - 370 AC 85 - 264	33	-12 - 12V 0.3 - 3A (peak 4.5A)
LDC30F-2	DC 110 - 370 AC 85 - 264	34.5	-15 - 15V 0.3 - 3A (peak 4.5A)



- ① Series name
- ② Multiple output
- ③ Output wattage
- ④ Universal input
- ⑤ Output voltage combination
- ⑥ Optional
- C :with Coating
- G :Low leakage current
- S :with Chassis
- SN:with Chassis & cover
- Y :with Potentiometer

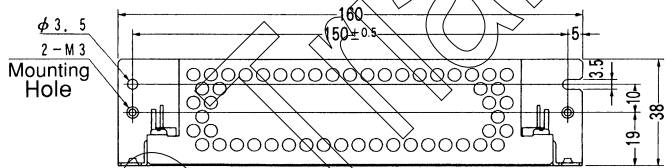
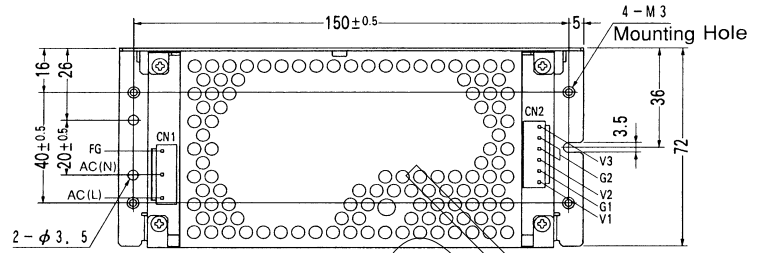
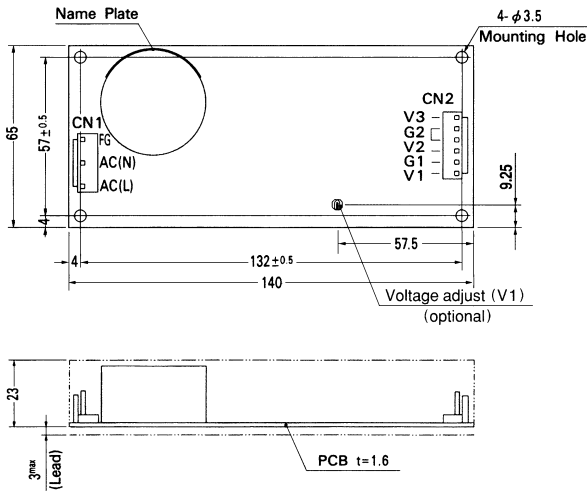
MODEL	LDC30F-1		LDC30F-2		
DC OUTPUT	V1	+5V 3.0(Peak 4.5)A	+5V 3.0(Peak 4.5)A		
	V2	+12V 1.2(Peak 2.0)A	+15V 1.0(Peak 2.0)A		
	V3	-12V 0.3(Peak 0.45)A	-15V 0.3(Peak 0.45)A		

SPECIFICATIONS

	MODEL	LDC30F-1			LDC30F-2			
INPUT	VOLTAGE[V]	AC85 - 264 1 φ or DC110 - 370						
	CURRENT[A]	ACIN 100V	0.8typ (Io=100%)					
	FREQUENCY[Hz]	47 - 440 or DC						
	EFFICIENCY[%]	ACIN 100V	72typ (Io=100%)					
	INRUSH CURRENT[A]	ACIN 100V	25typ (Io=100%)(At cold start)					
		ACIN 200V	50typ (Io=100%)(At cold start)					
	LEAKAGE CURRENT[ma]	0.75max (60Hz, According to UL, CSA, VDE and DEN-AN)						
OUTPUT	VOLTAGE[V]	+5	+12	-12	+5	+15	-15	
	CURRENT[A]	*1 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)	
	LINE REGULATION[mV]	20max	48max	48max	20max	60max	60max	
	LOAD REGULATION[mV]	100max	120max	150max	100max	120max	150max	
	RIPPLE[mVp-p]	0t or 50C *2 100max	120max	120max	100max	120max	120max	
		-10 - 0C *2 150max	160max	160max	150max	160max	160max	
	RIPPLE NOISE[mVp-p]	0t or 50C *2 120max	150max	150max	120max	150max	150max	
		-10 - 0C *2 170max	180max	180max	170max	180max	180max	
	TEMPERATURE REGULATION[mV]	0t or 50C 50max	350max	350max	50max	350max	350max	
		-10t or 50C 60max	420max	420max	60max	420max	420max	
	DRIFT[mV]	*3 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%), 100typ (ACIN 200V, Io=100%)						
OUTPUT VOLTAGE ADJUSTMENT RANGE[V]	Fixed	Fixed	Fixed	Fixed	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		
PROTECTION CIRCUIT AND OTHERS	OVERCURRENT PROTECTION	Works over 105% of rating and recovers automatically						
	OVERVOLTAGE PROTECTION	Works at 115 - 140% of rating (+5V only)						
	OPERATING INDICATION	Not provided						
	REMOTE SENSING	Not provided						
	REMOTE ON/OFF	Not provided						
ISOLATION	INPUT-OUTPUT	AC3,000V 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)						
	OUTPUT-OUTPUT(V1-V2,V3)	AC100V 1minute, Cutoff current = 100mA, DC100V 10MΩ 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)						
	STORAGE TEMP., HUMID. AND ALTITUDE	-20 to +75°C, 20 - 90%RH (Non condensing), 9,000m (30,000feet)						
	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, EN60950-1, EN50178, CSA C22.2 No.234 Complies with DEN-AN and IEC60950-1						
	CONDUCTED NOISE	Complies with FCC-B, CISPR22-B, EN55022-B, VCCI-B						
OTHERS	CASE SIZE/WEIGHT	65 X 26 X 140mm (W X H X D) / 220g max (without chassis and cover)						
	COOLING METHOD	Convection						

*1 Peak load for 10sec. or less is acceptable if the total wattage is less than the rated wattage(-1: 33W, -2: 34.5W).When the load of +5V is OA, other output can be drawn by 80% of rated current.
 *2 Measured by 20MHz oscilloscope or Ripple-Noise meter (equivalent to KEISOKU-GIKEN:RM101).
 *3 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.
 * Derating is required when operated with chassis and cover.

External view



<PIN CONNECTION>

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

Pin No.	Output
1	V3
2	G2
3	G2
4	V2
5	G1
6	V1

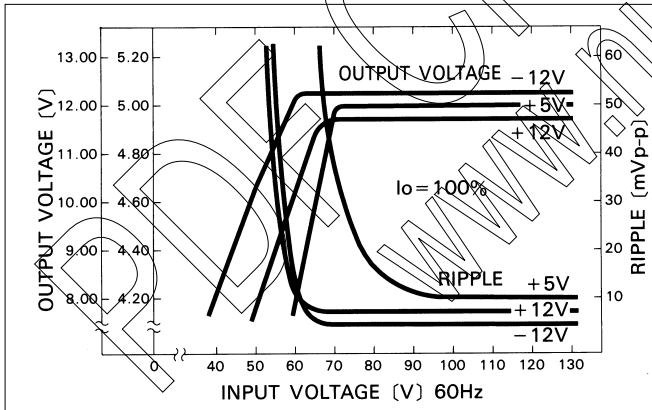
I/O Connector	Mating Connector	Terminal
CN1	B3P5-VH	VHR-5N
		Chain: SVH-21T-P1.1
		Loose: BVH-21T-P1.1
CN2	B6P-VH	VHR-6N
		Chain: SVH-21T-P1.1
		Loose: BVH-21T-P1.1

(Mfr : J.S.T.)

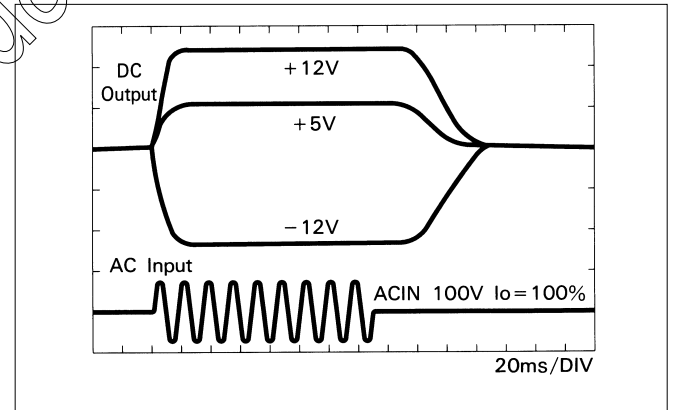
- ※ Weight: 220g or less (without chassis and cover)
- ※ Tolerance: ±1
- ※ Dimensions in mm.
- ※ PCB Material: Glass composite (CEM3)
- ※ Chassis and cover is optional.
- ※ Mounting torque: 0.6N·m (6.3kgf·cm) max

Performance data

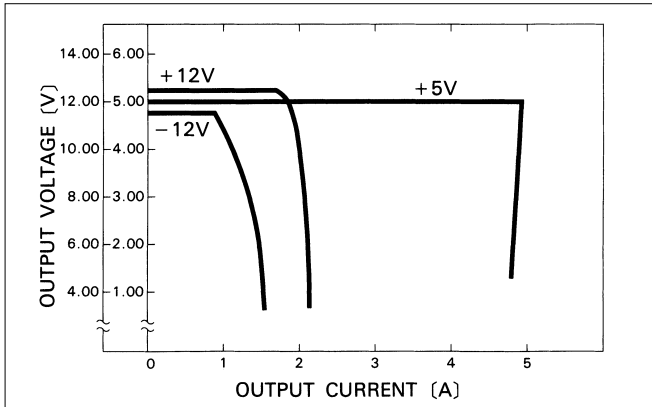
■ STATIC CHARACTERISTICS (LDC30F-1)



■ RISE TIME & FALL TIME (LDC30F-1)



■ OVERCURRENT CHARACTERISTICS (LDC30F-1)



■ DERATING CURVE

