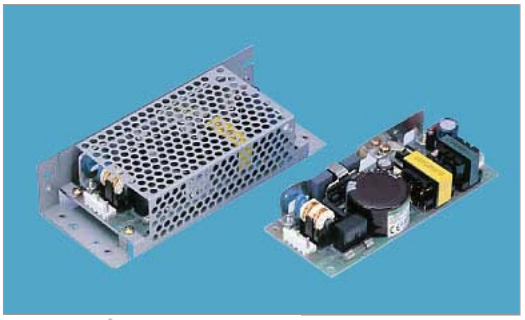
LDA30F



Features

- Input range LDA10 - 75F (AC85 - 264V)
- Input range LDA100 - 300W (AC85 - 132V/AC170 - 264V)
- Autoranging input
- Rugged PCB type
- Built-in Inrush Current Protection
- RoHS Compliant

Safety Agency Approvals

- Complies with DEN-AN
- UL1950, C-UL recognized, TUV approved
- UL recognized, TUV approved, CSA certified (LDA10F - LDA150W)

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]
LDA30F-3	DC 110 - 370 AC 85 - 264	18	3V 6A
LDA30F-5	DC 110 - 370 AC 85 - 264	30	5V 6A
LDA30F-12	DC 110 - 370 AC 85 - 264	30	12V 2.5A
LDA30F-15	DC 110 - 370 AC 85 - 264	30	15V 2A
LDA30F-24	DC 110 - 370 AC 85 - 264	31.2	24V 1.3A

COSEL **Rugged PCB type**

LDA30F

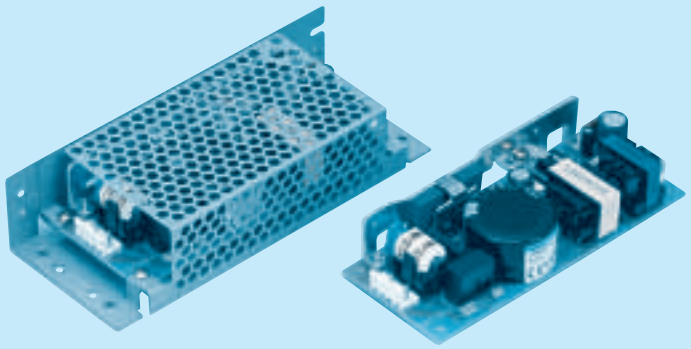
Ordering information

LDA 30 F -5 -□

① ② ③ ④ ⑤

(LVD)

RoHS



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.

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

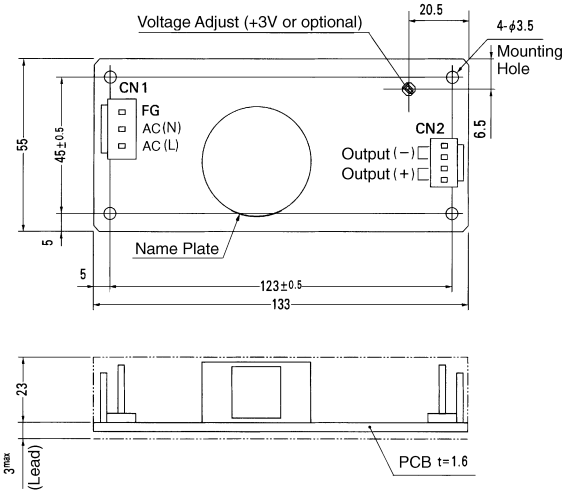
MODEL	LDA30F-3	LDA30F-5	LDA30F-12	LDA30F-15	LDA30F-24
MAX OUTPUT WATTAGE[W]	18	30	30	30	31.2
DC OUTPUT	3V 6.0A	5V 6.0A	12V 2.5A	15V 2.0A	24V 1.3A

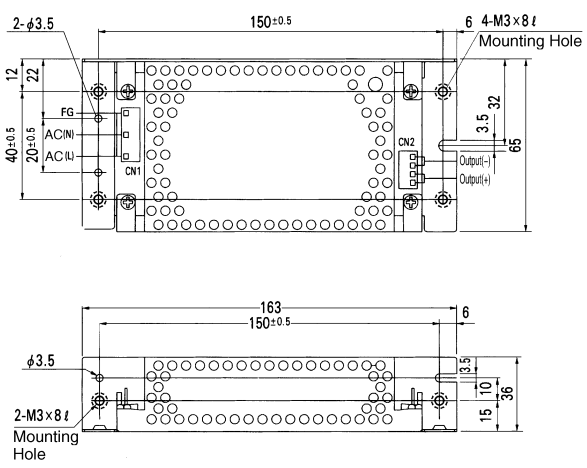
SPECIFICATIONS

	MODEL		LDA30F-3	LDA30F-5	LDA30F-12	LDA30F-15	LDA30F-24
INPUT	VOLTAGE[V]		AC85 - 264 1φ or DC110 - 370				
	CURRENT[A]	ACIN 100V	0.8typ (Io=100%)				
		ACIN 200V	0.4typ (Io=100%)				
	FREQUENCY[Hz]		47 - 440 or DC				
	EFFICIENCY[%]		70typ	75typ	77typ	78typ	79typ
	INRUSH CURRENT[A]	ACIN 100V	15typ (Io=100%) (At cold start)				
		ACIN 200V	30typ (Io=100%) (At cold start)				
	LEAKAGE CURRENT[mA]		0.75max (60Hz, According to UL, CSA, VDE and DEN-AN)				
OUTPUT	VOLTAGE[V]		3	5	12	15	24
	CURRENT[A]		6	6	2.5	2	1.3
	LINE REGULATION[mV]		20max	20max	48max	60max	96max
	LOAD REGULATION[mV]		40max	40max	100max	120max	150max
	RIPPLE[mVp-p]	0 to +50℃	80max	80max	120max	120max	120max
		-10 - 0℃	140max	140max	160max	160max	160max
	RIPPLE NOISE[mVp-p]	0 to +50℃	120max	120max	150max	150max	150max
		-10 - 0℃	160max	160max	180max	180max	180max
	TEMPERATURE REGULATION[mV]		60max	60max	150max	180max	290max
	DRIFT[mV]	*1	20max	20max	48max	60max	96max
	START-UP TIME[ms]		200max (ACIN 100V, 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 option :5, 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		4.00 - 5.25V	Works at 115 - 140% of rating			
	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)				
ENVIRONMENT	OPERATING TEMP.,HUMID.AND ALTITUDE		-10 to +60℃, 20 - 90%RH (Non condensing) (Refer to DERATING CURVE) 3,000m (10,000feet) max				
	STORAGE TEMP.,HUMID.AND ALTITUDE		-20 to +75℃, 20 - 90%RH (Non condensing) 9,000m (30,000feet) max				
	VIBRATION		10 - 55Hz, 19.6m/s² (2G), 3minutes period, 60minutes each along X, Y and Z axis				
	IMPACT		196.1m/s² (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		55×26×133mm (W×H×D) /200g max (without chassis and cover)				
	COOLING METHOD		Convection				

*1 Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25℃, with the input voltage held constant at the rated input/output.
* Avoid prolonged use under over-load.
* Series/Parallel operation with other model is not possible.
* Derating is required when operated with chassis and cover.

External view





I/O Connector		Mating Connector	Terminal
CN1	B3P5-VH	VHR-5N	Chain:SVH-21T-P1.1 Loose:BVH-21T-P1.1
CN2	B4P-VH	VHR-4N	Chain:SVH-21T-P1.1 Loose:BVH-21T-P1.1

(Mfr : J.S.T.)

<PIN CONNECTION>

	Pin No.	Input
CN1	1	AC(L)
	2	
	3	AC(N)
	4	
	5	FG

	Pin No.	Output
CN2	1	−V
	2	−V
	3	+V
	4	+V

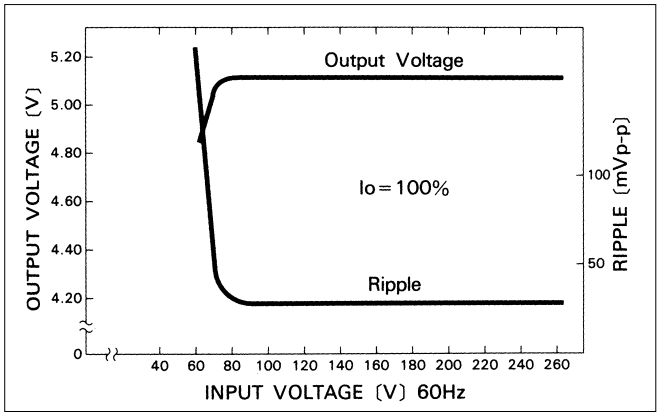
※Keep drawing current per pin below 5A for CN2.

※Weight : 200g 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

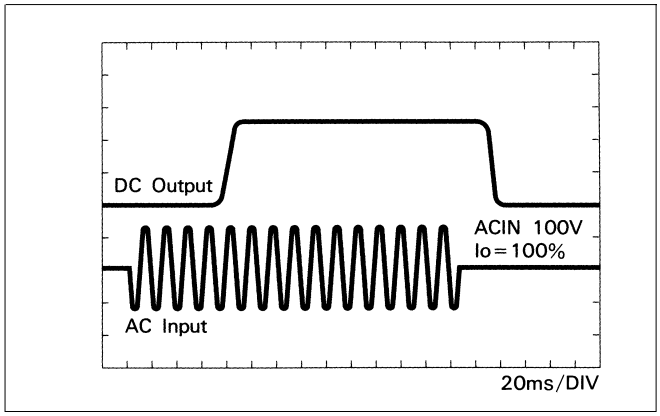
LDA

Performance data

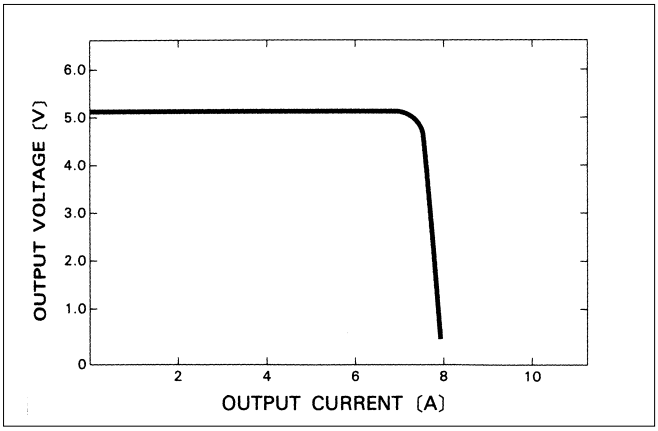
■STATIC CHARACTERISTICS (LDA30F-5)



■RISE TIME & FALL TIME (LDA30F-5)



■OVERCURRENT CHARACTERISTICS (LDA30F-5)



■DERATING CURRENT