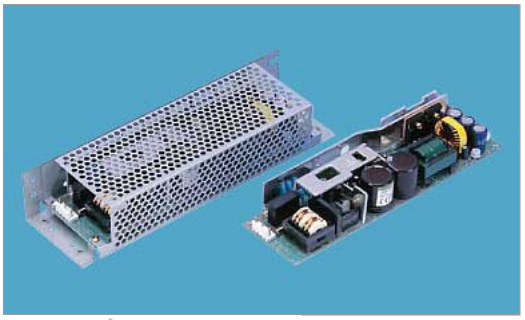
LDA100W



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]
LDA100W-3	AC 85 - 264	60	3V 20A
LDA100W-5	AC 85 - 264	100	5V 20A
LDA100W-9	AC 85 - 264	103.5	9V 11.5A
LDA100W-12	AC 85 - 264	102	12V 8.5A
LDA100W-15	AC 85 - 264	100.5	15V 6.7A
LDA100W-18	AC 85 - 264	100.8	18V 5.6A
LDA100W-24	AC 85 - 264	103.2	24V 4.3A
LDA100W-24-H	AC 85 - 264	103.2 (peak 156)	24V 4.3A (peak 6.5A)
LDA100W-30	AC 85 - 264	105	30V 3.5A
LDA100W-48	AC 85 - 264	96	48V 2A

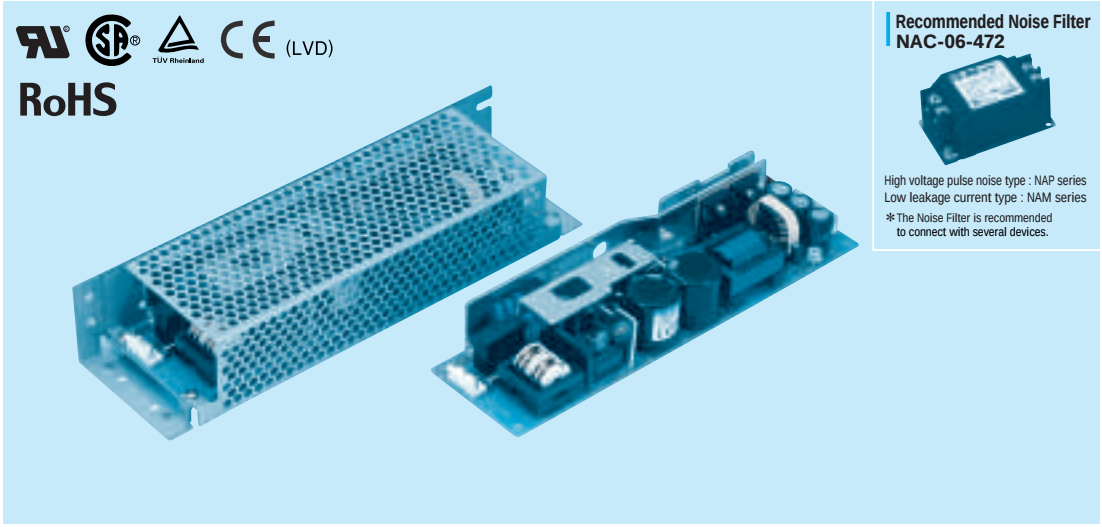
COSEL **Rugged PCB type**

LDA100W

Ordering information

LDA 100 W -5 -□

① ② ③ ④ ⑤



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
③Autoranging input
④Output voltage
⑤Optional
C :with Coating
G :Low leakage current
R :with Remote ON/OFF
S :with Chassis
SN:with Chassis & cover
Y :with Potentiometer

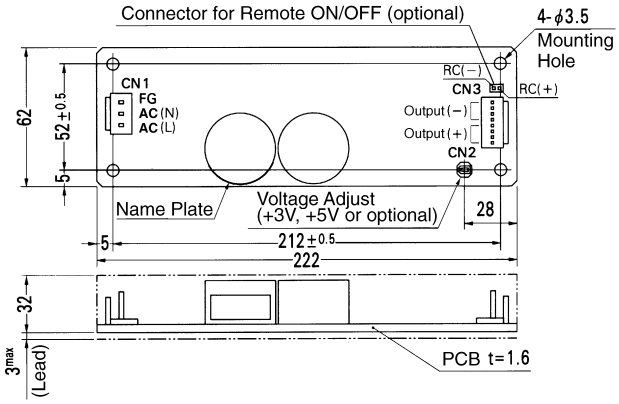
MODEL	LDA100W-3	LDA100W-5	LDA100W-9	LDA100W-12	LDA100W-15	LDA100W-18	LDA100W-24	LDA100W-24-H	LDA100W-30	LDA100W-48
MAX OUTPUT WATTAGE[W]	60	100	103.5	102	100.5	100.8	103.2	103.2	105	96
DC OUTPUT *3	3V 20A	5V 20A	9V 11.5A	12V 8.5A	15V 6.7A	18V 5.6A	24V 4.3A	24V 4.3(6.5)A	30V 3.5A	48V 2.0A

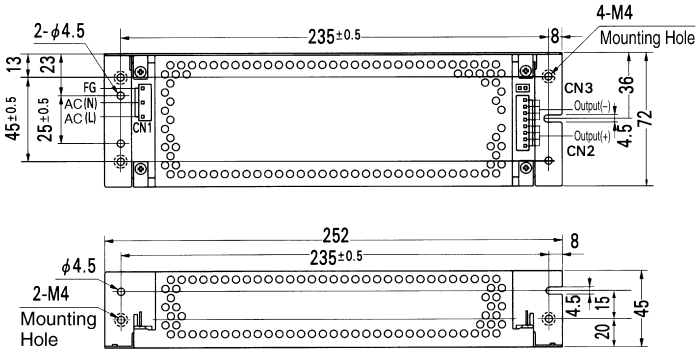
SPECIFICATIONS

	MODEL		LDA100W-3	LDA100W-5	LDA100W-9	LDA100W-12	LDA100W-15	LDA100W-18	LDA100W-24	LDA100W-24-H	LDA100W-30	LDA100W-48
INPUT	VOLTAGE[V]		AC 85 - 132 / 170 - 264 1φ									
	CURRENT[A]	ACIN 100V	2.4typ (Io=100%)									
		ACIN 200V	1.2typ (Io=100%)									
	FREQUENCY[Hz]		47 - 440									
	EFFICIENCY[%]		75typ	79typ	80typ	81typ	82typ	82typ	83typ	83typ	83typ	82typ
	INRUSH CURRENT[A]	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	9	12	15	18	24	24	30	48
	CURRENT[A]	*1	20	20	11.5	8.5	6.7	5.6	4.3	4.3 (6.5)	3.5	2.0
	LINE REGULATION[mV]		20max	20max	36max	48max	60max	72max	96max	96max	120max	192max
	LOAD REGULATION[mV]		40max	40max	100max	100max	120max	120max	150max	150max	180max	240max
	RIPPLE[mVp-p]	0 to +50℃	80max	80max	120max	120max	120max	120max	120max	120max	120max	150max
		-10 - 0℃	140max	140max	160max	160max	160max	160max	160max	160max	160max	200max
	RIPPLE NOISE[mVp-p]	0 to +50℃	120max	120max	150max	150max	150max	150max	150max	250max	150max	400max
		-10 - 0℃	160max	160max	180max	180max	180max	180max	180max	280max	180max	600max
	TEMPERATURE REGULATION[mV]		60max	60max	120max	150max	180max	200max	290max	290max	360max	560max
	DRIFT[mV]	*2	20max	20max	36max	48max	60max	72max	96max	96max	120max	192max
	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	4.5 - 5.5	Fixed ("Y"which can be adjusted the output is available as option :9, 12, 15, 18, 24, 30, 48V ±10%)							
	OUTPUT VOLTAGE SETTING[V]		——	——	8.6 - 9.4	11.5 - 12.5	14.4 - 15.6	17.3 - 18.7	23.0 - 25.0	23.0 - 25.0	28.8 - 31.2	46.0 - 50.0
PROTECTION CIRCUIT AND OTHERS	OVERCURRENT PROTECTION		Works over 105% of rating (-H : peak) 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		Option (Refer to Instruction Manual)									
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		62×35×222mm (W×H×D) /360g max (without chassis and cover)									
	COOLING METHOD		Convection									

*1 Peak load for 20sec. or less is acceptable if the total wattage is less than the rated wattage(24V:103.2W).
*2 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.
*3 ( ) : peak current
* Avoid prolonged use under over-load.
* Parallel operation with other model is not possible.
* Derating is required when operated with chassis and cover.

External view





※Weight : 360g or less (Without chassis and cover)
※Tolerance : ±1
※Dimensions in mm.
※PCB Material : Glass composite (CEM3)
※Chassis and cover is optional.
※Mounting torque : 1.5 N•m (16 kgf•cm) max

I/O Connector		Mating Connector	Terminal
CN1	B3P5-VH	VHR-5N	Chain: SVH-21T-P1.1
			Loose: BVH-21T-P1.1
CN2	B8P-VH	VHR-8N	Chain: SVH-21T-P1.1
			Loose: BVH-21T-P1.1
CN3	B2B-XH-A	XHP-2	Chain: SXH-001T-P0.6
			Loose: BXH-001T-P0.6

(Mfr : J.S.T.)

〈PIN CONNECTION〉

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

	Pin No.	Output
CN2	1~4	−V
	5~8	+V

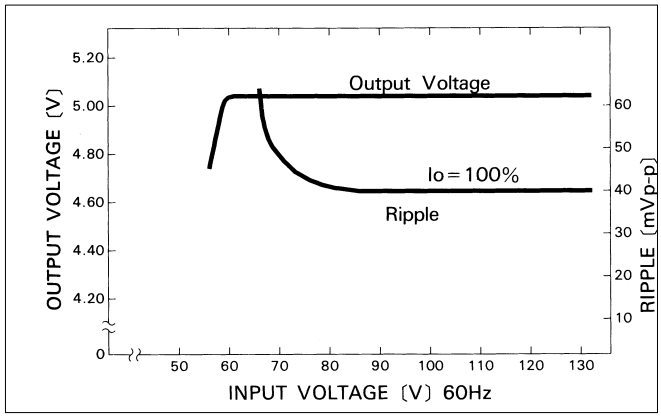
	Pin No.	Remote ON/OFF
CN3	1	RC(+)
	2	RC(−)

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

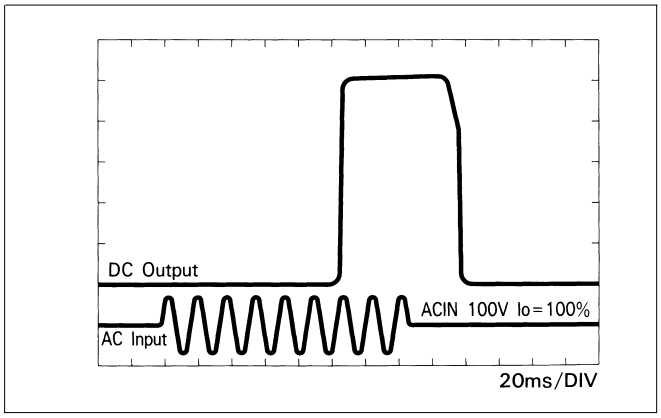
LDA

Performance data

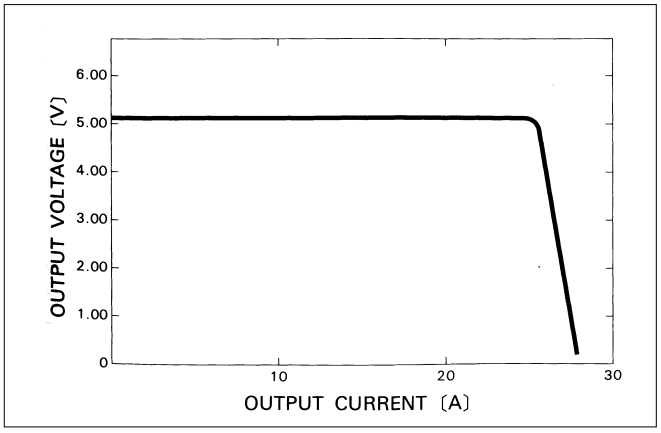
■STATIC CHARACTERISTICS (LDA100W-5)



■RISE TIME & FALL TIME (LDA100W-5)



■OVERCURRENT CHARACTERISTICS (LDA100W-5)



■DERATING CURVE

