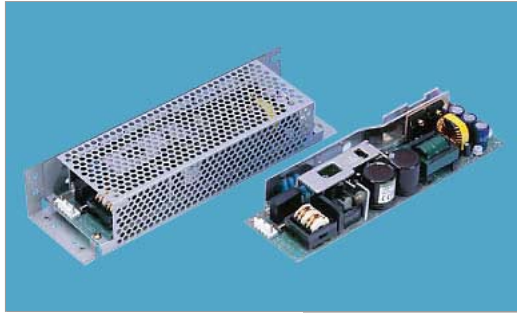


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LDA100W



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

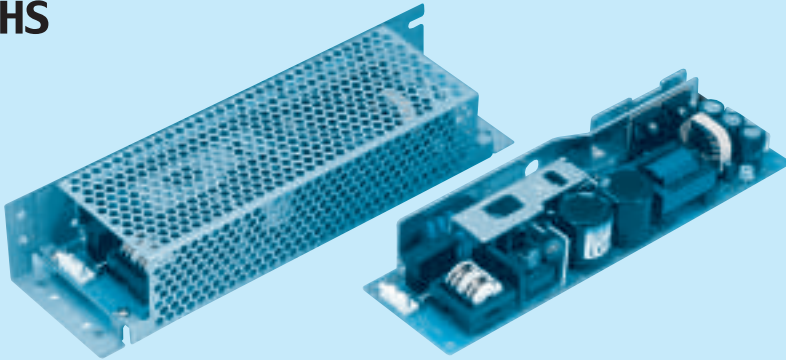
LDA100W

LDA 100 W -5 -□

① ② ③ ④ ⑤



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.

- ① Series name
- ② Output wattage
- ③ Autoranging input
- ④ Output voltage
- ⑤ Optional
- 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

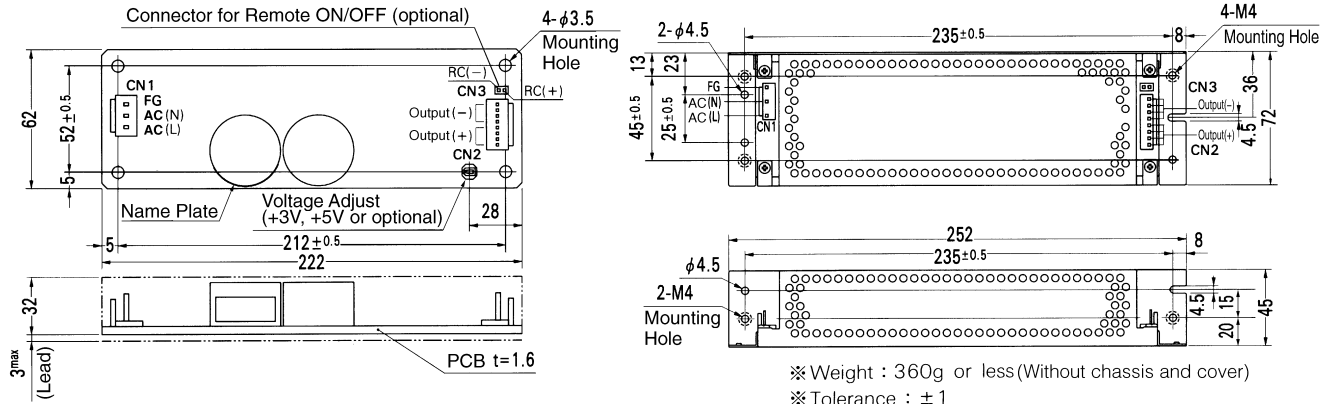
SPECIFICATIONS

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 1 φ														
	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°C		80max		80max		120max		120max		120max		120max		120max		120max		150max					
			-10 - 0°C		140max		140max		160max		160max		160max		160max		160max		160max		200max					
	RIPPLE NOISE[mVp-p]		0 to +50°C		120max		120max		150max		150max		150max		150max		150max		250max		150max		400max			
			-10 - 0°C		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°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, 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 X 35 X 222mm (W X H X 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°C, 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

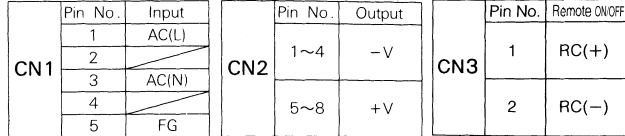


- ※ Weight : 360g or less (Without chassis and cover)
- ※ Tolerance : ± 1
- ※ Dimensions in mm.
- ※ PCB Material : Glass composite (CEM3)
- ※ Chassis and cover is optional.
- ※ Mounting torque : 1.5 N·m (16 kgf·cm) max

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.)

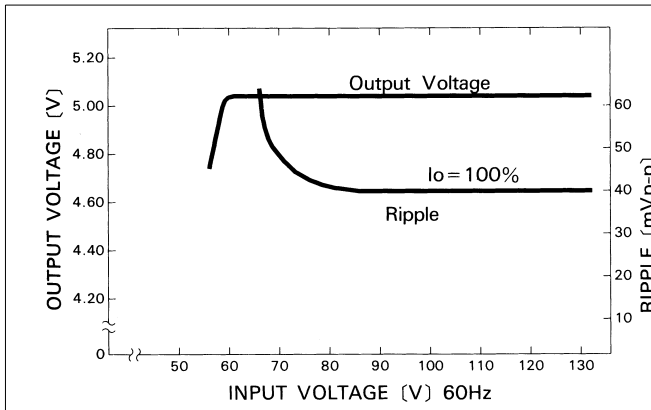
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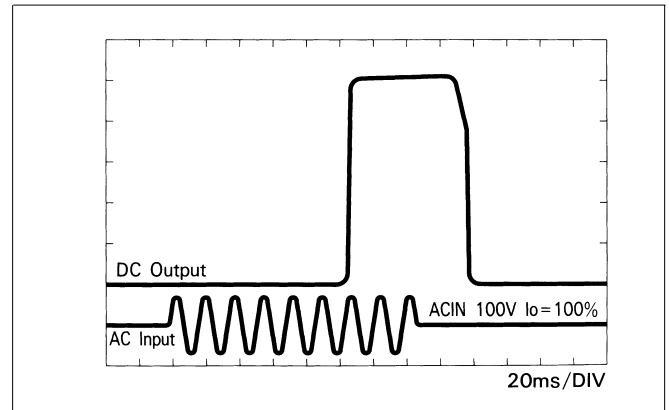
※ Keep drawing current per pin below 5A for CN2.

Performance data

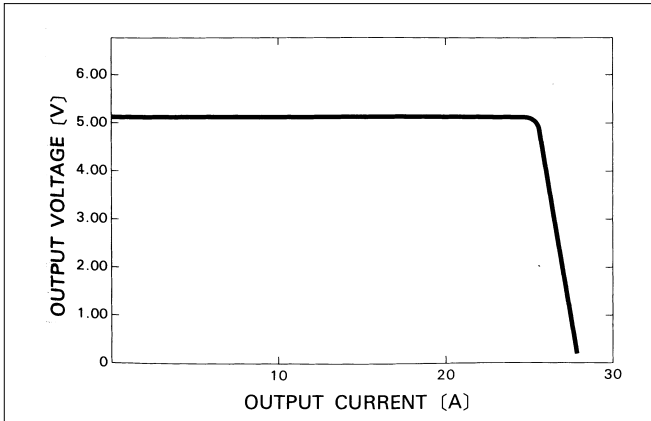
■ STATIC CHARACTERISTICS (LDA100W-5)



■ RISE TIME & FALL TIME (LDA100W-5)



■ OVERCURRENT CHARACTERISTICS (LDA100W-5)



■ DERATING CURVE

