

- High quality and cost effectiveness
- Small and compact PCB construction
- Autoranging voltage (AC85~132V/AC170~264V)
- UL, recognized, TÜV approved, CSA certified
- Built-in inrush current, overcurrent and overvoltage protection circuits
- Two-year warranty

### ■ ORDERING INFORMATION

**LDA150** □-5- □

Optional: EX. With chassis and cover: SN  
 With voltage adjuster: Y  
 Output voltage  
 ( W: Autoranging input  
 B: Only for 200V input )  
 Output wattage  
 Series name

### SPECIFICATIONS

	MODEL	LDA150W-3	LDA150W-5	LDA150W-9	LDA150W-12	LDA150W-15	LDA150W-18	LDA150W-24	LDA150W-24-H	LDA150W-30	LDA150W-48
LDA INPUT	VOLTAGE/CURRENT	AC85~132V/170~264V 1φ /	3.6A typ (ACIN 100V, Io=100%)	2.0A typ (ACIN 200V, Io=100%)							
	FREQUENCY	47~440Hz									
	EFFICIENCY	75%typ	79%typ	79%typ	82%typ	83%typ	84%typ	85%typ	85%typ	85%typ	82%typ
	INRUSH CURRENT	30A typ (ACIN 100/200V, Io=100%)	(At cold start)								
	LEAKAGE CURRENT	0.75mA max (60Hz, according to UL, CSA, VDE and DENTORI)									
OUTPUT	VOLTAGE [V]	3	5	9	12	15	18	24	24	30	48
	CURRENT [A]※1	30	30	17	12.5	10	8.5	6.3	6.3 (10)	5	3
	LINE REGULATION [mV]	20 max	20 max	36 max	48 max	60 max	72 max	96 max	96 max	120 max	192 max
	LOAD REGULATION [mV]	40 max	40 max	100 max	100 max	120 max	120 max	150 max	150 max	180 max	240 max
	RISSLE [0~+50°C]	80 max	80 max	120 max	120 max	120 max	120 max	120 max	120 max	120 max	150 max
	[mVp-p]	-10~-0°C	140 max	140 max	160 max	160 max	160 max	160 max	160 max	260 max	200 max
	RISSLE NOISE [mVp-p]	0~+50°C	120 max	120 max	150 max	150 max	150 max	150 max	150 max	250 max	400 max
	-10~-0°C	160 max	160 max	180 max	180 max	180 max	180 max	180 max	180 max	280 max	600 max
	TEMPERATURE COEFFICIENT [mV]	60 max	60 max	120 max	150 max	180 max	200 max	290 max	290 max	360 max	560 max
	DRIFT [mV]※2	20 max	20 max	36 max	48 max	60 max	72 max	96 max	96 max	120 max	192 max
	START-UP TIME [mS]	200max	(ACIN 100V, Io =100%)								
	HOLD-UP TIME [mS]	10typ	(ACIN 85V, Io=100%)	, 20 typ (ACIN 100V, Io=100%)							
PROTECTION CIRCUITS	OUTPUT VOLTAGE ADJUSTMENT RANGE [V]※3	2.85~3.6	4.5~5.5				Fixed				
	OVERCURRENT PROTECTION	Works over 105% of rating (-H:peak) and recovers automatically									
	OVERVOLTAGE PROTECTION	4.00~5.25V	Works at 115% ~140% of rating								
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	AC 500V, 1 minute, Cutoff current=100mA, DC500V, 50MΩ min.	(At Room Temperature)								
ENVIRONMENT	OPERATING TEMP. AND HUMID.	-10~+60°C, 20~90%RH	(Non condensing)	(Refer to DERATING CURVE)							
	STORAGE TEMP. AND HUMID.	-20~+75°C, 20~90%RH	(Non condensing)								
	VIBRATION	10~55Hz, 2G, 3 minutes period, 60 minutes each along X, Y and Z axis									
	IMPACT	20G, 11mS, once each X, Y and Z axis									
SAFETY AND NOISE REGULATIONS	SAFETY	Recognized UL1950, approved EN60950, VDE0160, certified CSA C22.2 No.234, complies with DENTORI and IEC950									
	CONDUCTED NOISE	Complies with FCC-B, Vfg243/91 and VCCI 2									

※1 Peak load can be operated when the total wattage is within rated wattage(24V:151.2W)and less than 10 seconds(within the rated current for the average current).

※2 The drift is a change at 25°C of ambient temperature and 30 minutes~8 hours after the input voltage applied at rated input/output.

※3 "Y" which can be adjusted the output is available as optional.

※ Avoid prolonged use under over-load.

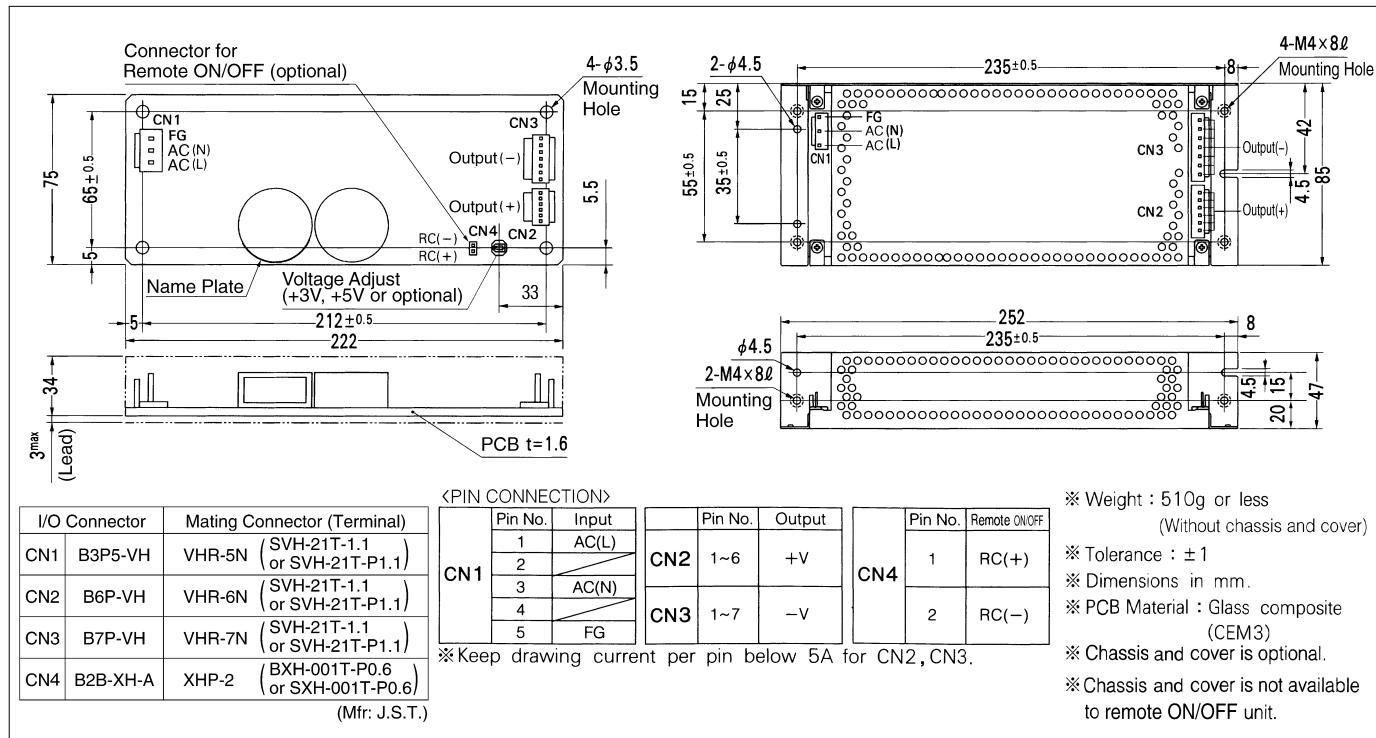
※ Parallel operation with other model is not possible.

※ When units are operated with chassis/case cover, derating is required.

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MAX OUTPUT WATTAGE	90W	150W	153W	150W	150W	153W	151.2W	151.2W	150W	144W
DC OUTPUT	3V30A	5V30A	9V17A	12V12.5A	15V10A	18V8.5A	24V6.3A	24V6.3(10A)	30V5A	48V3A

( ) Peak

## ■ EXTERNAL VIEW



※ Weight : 510g or less  
(Without chassis and cover)

※ Tolerance : ± 1

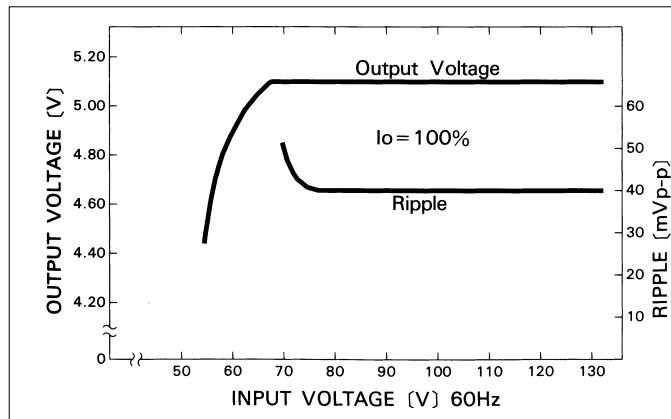
※ Dimensions in mm.

※ PCB Material : Glass composite  
(CEM3)

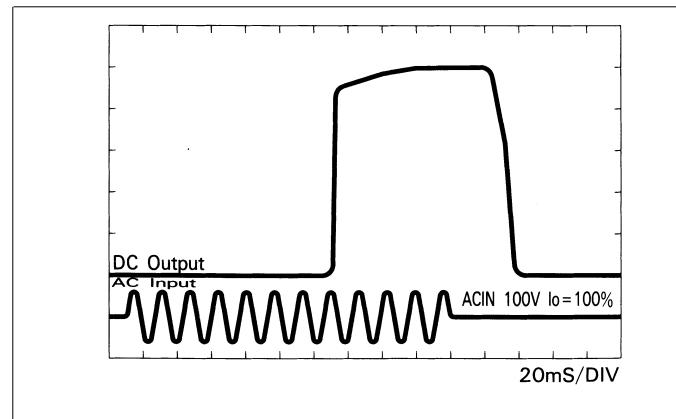
※ Chassis and cover is optional.

※ Chassis and cover is not available  
to remote ON/OFF unit.

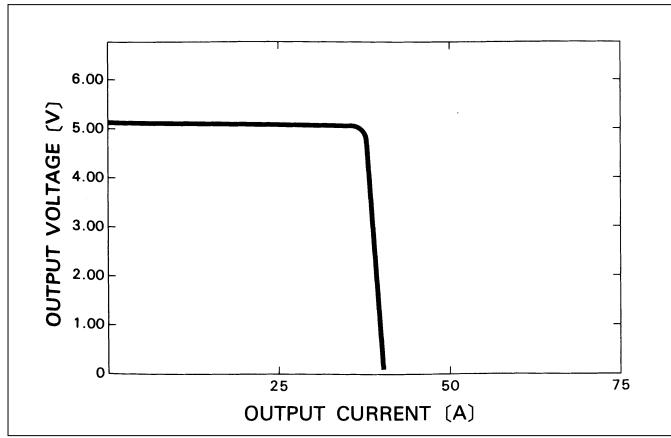
## ■ STATIC CHARACTERISTICS (LDA150W-5)



## ■ RISE TIME & FALL TIME (LDA150W-5)



## ■ OVERCURRENT CHARACTERISTICS (LDA150W-5)



## ■ DERATING CURVE

