

LDA10F

LDA 10 F -5 -□

① ② ③ ④ ⑤



Recommended EMI/EMC Filter
NAC-06-472



High voltage pulse noise type : NAP series
Low leakage current type : NAM series
* The EMI/EMC Filter is recommended
to connect with several devices.

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

MODEL	LDA10F-3	LDA10F-5	LDA10F-12	LDA10F-15	LDA10F-24
MAX OUTPUT WATTAGE[W]	6	10	10.8	10.5	12
DC OUTPUT	3V 2.0A	5V 2.0A	12V 0.9A	15V 0.7A	24V 0.5A

SPECIFICATIONS

	MODEL	LDA10F-3	LDA10F-5	LDA10F-12	LDA10F-15	LDA10F-24	
INPUT	VOLTAGE[V]	AC85 - 264 1 φ or DC110 - 370					
	CURRENT[A]	ACIN 100V	0.25typ (Io=100%)				
		ACIN 200V	0.16typ (Io=100%)				
	FREQUENCY[Hz]	47 - 440 or DC					
	EFFICIENCY[%]	68typ	72typ	74typ	74typ	78typ	
	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]	2	2	0.9	0.7	0.5	
	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]	50max	50max	120max	150max	240max	
	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%) 100typ (ACIN 200V, 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	4.00V min	Works over 115% of rating, by zener diode clamping				
	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.60950-1 Complies with DEN-AN and IEC60950-1					
	CONDUCTED NOISE	Complies with FCC-B, CISPR22-B, EN55022-B, VCCI-B					
OTHERS	CASE SIZE/WEIGHT	50×21×105mm (W×H×D) /75g 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.

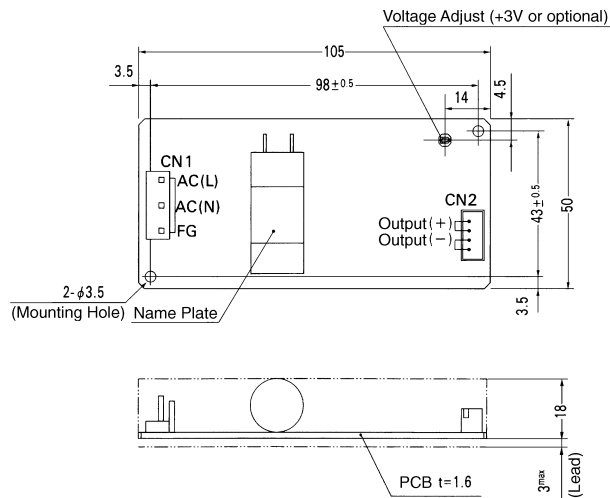
*2 Please contact us about safety approvals for the model with option.

* 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	B4B-XH-A	XHP-4
		Chain: SXH-001T-P0.6
		Loose: BXH-001T-P0.6

(Mfr : J.S.T.)

<PIN CONNECTION>

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

Pin No.	Output
1	-V
2	-V
3	+V
4	+V

※ Keep drawing current per pin below 2A for CN2.

※Weight : 75g 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 (LDA10F-5)



■RISE TIME & FALL TIME (LDA10F-5)



■OVERCURRENT CHARACTERISTICS (LDA10F-5)



■DERATING CURVE



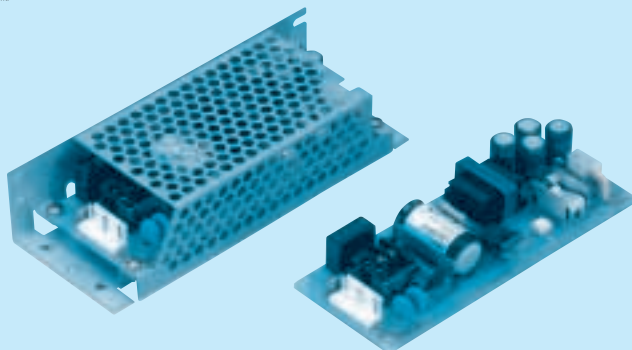
LDA15F

LDA 15 F -5 -□

① ② ③ ④ ⑤



RoHS

Recommended EMI/EMC Filter
NAC-06-472High voltage pulse noise type : NAP series
Low leakage current type : NAM series*The EMI/EMC Filter is recommended
to connect with several devices.

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

MODEL	LDA15F-3	LDA15F-5	LDA15F-12	LDA15F-15	LDA15F-24
MAX OUTPUT WATTAGE[W]	9	15	15.6	15	16.8
DC OUTPUT	3V 3.0A	5V 3.0A	12V 1.3A	15V 1.0A	24V 0.7A

SPECIFICATIONS

	MODEL	LDA15F-3	LDA15F-5	LDA15F-12	LDA15F-15	LDA15F-24	
INPUT	VOLTAGE[V]	AC85 - 264 1 ϕ or DC110 - 370					
	CURRENT[A]	ACIN 100V	0.37typ (Io=100%)				
		ACIN 200V	0.23typ (Io=100%)				
	FREQUENCY[Hz]	47 - 440 or DC					
	EFFICIENCY[%]	70typ	74typ	76typ	76typ	78typ	
	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]	3	3	1.3	1	0.7	
	LINE REGULATION[mV]	20max	20max	48max	60max	96max	
	LOAD REGULATION[mV]	40max	40max	100max	120max	150max	
	RIPPLE[mVp-p]	0 to +50°C	80max	80max	120max	120max	120max
		-10 - 0°C	140max	140max	160max	160max	160max
	RIPPLE NOISE[mVp-p]	0 to +50°C	120max	120max	150max	150max	150max
		-10 - 0°C	160max	160max	180max	180max	180max
	TEMPERATURE REGULATION[mV]	50max	50max	120max	150max	240max	
	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%) 100typ (ACIN 200V, 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 $\pm$ 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	4.00V min	Works over 115% of rating, by zener diode clamping				
	OPERATING INDICATION	Not provided					
	REMOTE SENSING	Not provided					
	REMOTE ON/OFF	Not provided					
ISOLATION	INPUT-OUTPUT	AC3.000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (At Room Temperature)					
	INPUT-FG	AC2.000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (At Room Temperature)					
	OUTPUT-FG	AC500V 1minute, Cutoff current = 100mA, DC500V 50M Ω 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.60950-1 Complies with DEN-AN and IEC60950-1					
	CONDUCTED NOISE	Complies with FCC-B, CISPR22-B, EN55022-B, VCCI-B					
OTHERS	CASE SIZE/WEIGHT	50 x 21 x 125mm (W x H x D) /95g 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°C, with the input voltage held constant at the rated input/output.

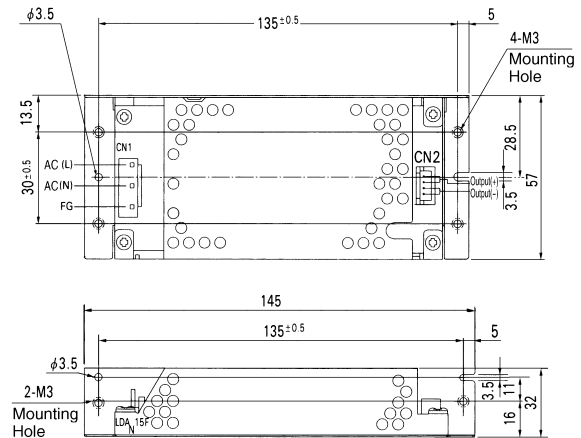
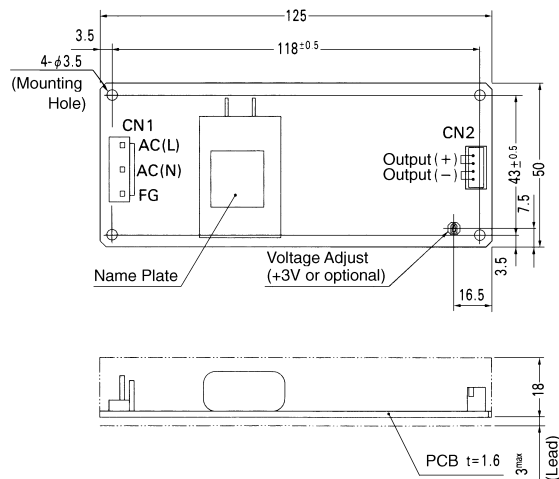
*2 Please contact us about safety approvals for the model with option.

* 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	B4B-XH-A	XHP-4	Chain: SXH-001T-P0.6
			Loose: BXH-001T-P0.6

(Mfr : J.S.T.)

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

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

※ Weight : 95g or less (Without chassis and cover)

※ Tolerance : ± 1

※ Dimensions in mm.

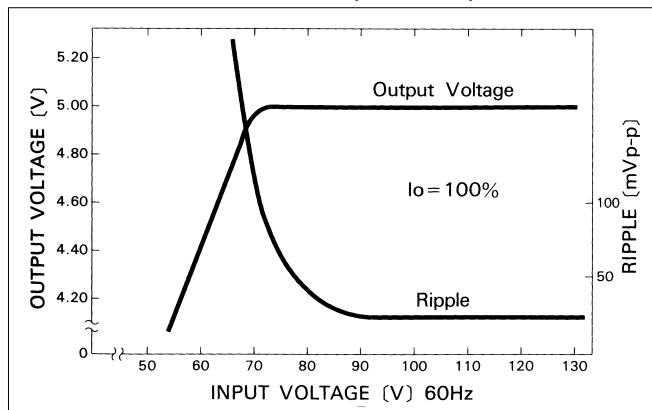
※ PCB Material : Glass composite (CEM3)

※ Chassis and cover is optional.

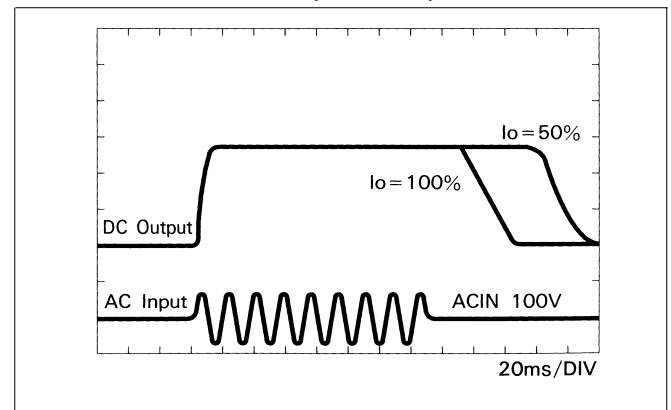
※Mounting torque : 0.6N・m (6.3kgf・cm) max

Performance data

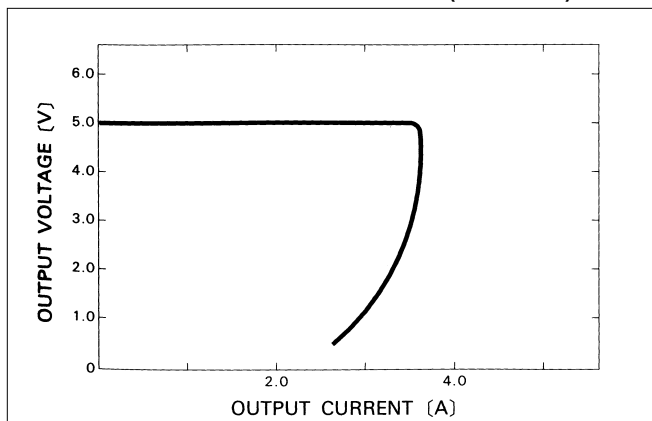
■ STATIC CHARACTERISTICS (LDA15F-5)



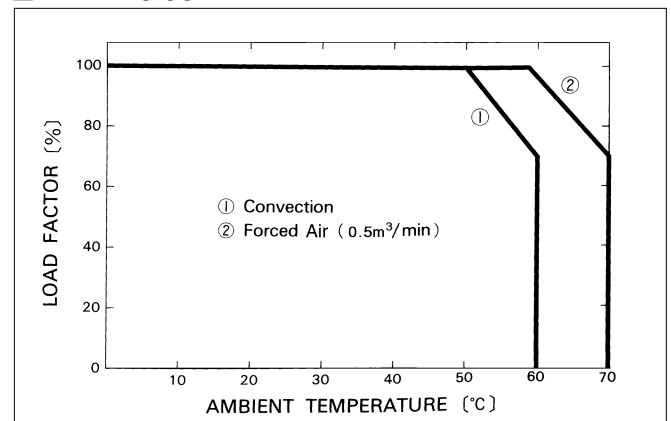
■ RISE TIME & FALL TIME (LDA15F-5)



■ OVERCURRENT CHARACTERISTICS (LDA15F-5)



■ DERATING CURVE



LDA30F

LDA 30 F -5 -□

① ② ③ ④ ⑤

Recommended EMI/EMC Filter
NAC-06-472

High voltage pulse noise type : NAP series
Low leakage current type : NAM series
*The EMI/EMC Filter is recommended to connect with several devices.

- ① Series name
② Output wattage
③ Universal input
④ Output voltage
⑤ Optional *2
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 1 ϕ 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°C	80max	80max	120max	120max	120max
		-10 - 0°C	140max	140max	160max	160max	160max
	RIPPLE NOISE[mVp-p]	0 to +50°C	120max	120max	150max	150max	150max
		-10 - 0°C	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 $\pm$ 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 50M Ω min (At Room Temperature)					
	INPUT-FG	AC2.000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (At Room Temperature)					
	OUTPUT-FG	AC500V 1minute, Cutoff current = 100mA, DC500V 50M Ω 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.60950-1 Complies with DEN-AN and IEC60950-1					
	CONDUCTED NOISE	Complies with FCC-B, CISPR22-B, EN55022-B, VCCI-B					
OTHERS	CASE SIZE/WEIGHT	55 x 26 x 133mm (W x H x 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°C, with the input voltage held constant at the rated input/output.

*2 Please contact us about safety approvals for the model with option.

* 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>

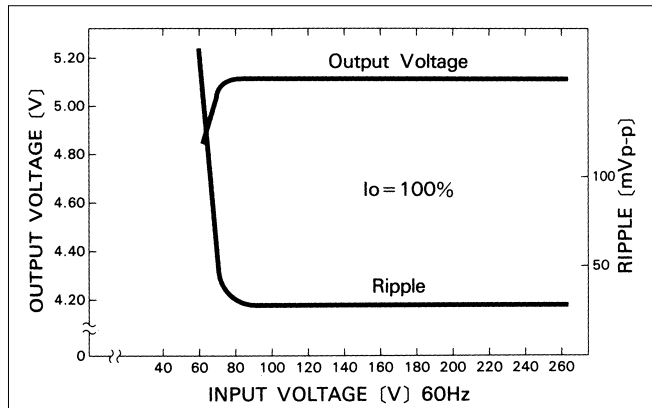
Pin No.	Input
1	AC(L)
2	AC(N)
3	AC(N)
4	AC(N)
5	FG

Pin No.	Output
1	-V
2	-V
3	+V
4	+V

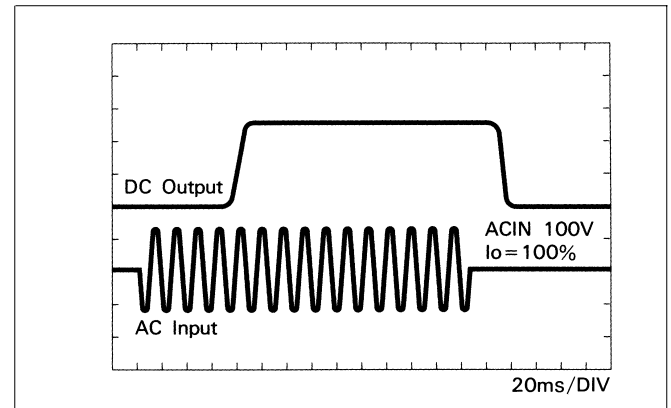
- ※ Weight : 200g or less (Without chassis and cover)
- ※ Tolerance : ± 1
- ※ Dimensions in mm.
- ※ PCB Material : Glass composite (CEM3)
- ※ Chassis and cover is optional.
- ※ Mounting torque : 0.6N·m (6.3kgf·cm) max
- ※ Keep drawing current per pin below 5A for CN2.

Performance data

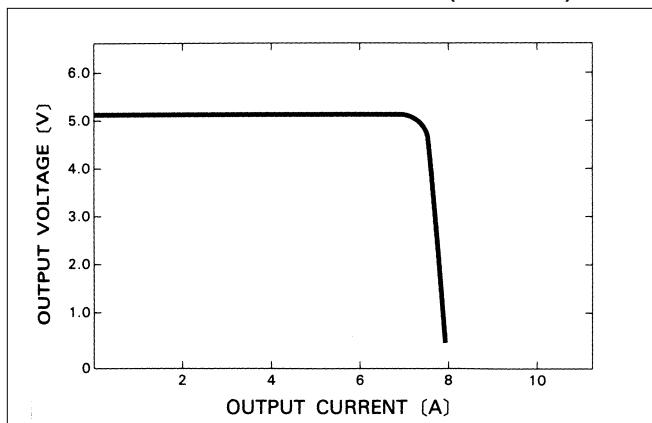
■ STATIC CHARACTERISTICS (LDA30F-5)



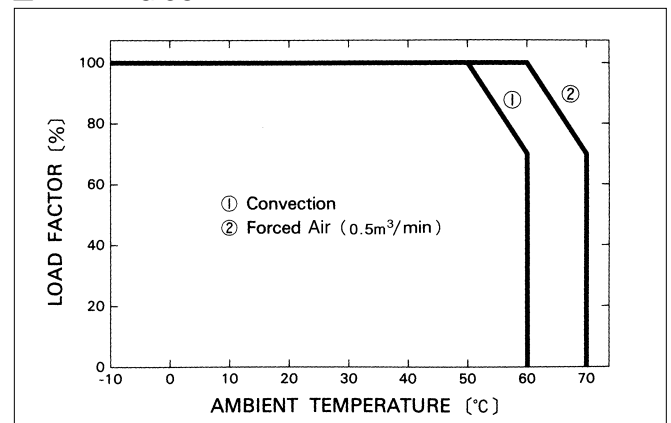
■ RISE TIME & FALL TIME (LDA30F-5)



■ OVERCURRENT CHARACTERISTICS (LDA30F-5)



■ DERATING CURVE



LDA50F

LDA 50 F -5 -□

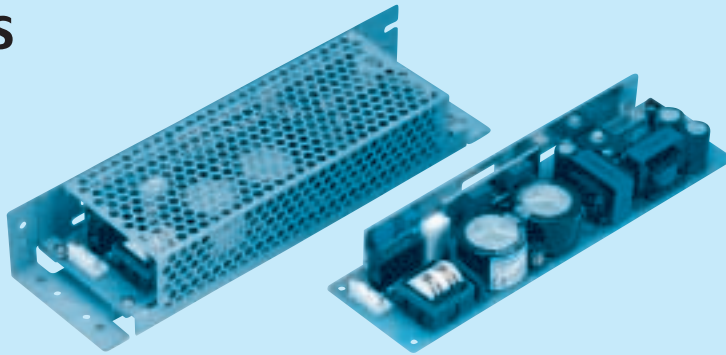
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Recommended EMI/EMC Filter
NAC-06-472

High voltage pulse noise type : NAP series
Low leakage current type : NAM series
*The EMI/EMC Filter is recommended to connect with several devices.

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

MODEL	LDA50F-3	LDA50F-5	LDA50F-9	LDA50F-12	LDA50F-15	LDA50F-18	LDA50F-24	LDA50F-24-H	LDA50F-24-HR	LDA50F-30
MAX OUTPUT WATTAGE[W]	30	50	50.4	51.6	52.5	50.4	50.4	50.4	50.4	51
DC OUTPUT	*3 3V 10A	5V 10A	9V 5.6A	12V 4.3A	15V 3.5A	18V 2.8A	24V 2.1A	24V 2.1(3)A	24V 2.1(3)A	30V 1.7A

SPECIFICATIONS

	MODEL	LDA50F-3	LDA50F-5	LDA50F-9	LDA50F-12	LDA50F-15	LDA50F-18	LDA50F-24	LDA50F-24-H	LDA50F-24-HR	LDA50F-30	
INPUT	VOLTAGE[V]	AC85 - 264 1 φ or DC110 - 370										
	CURRENT[A]	ACIN 100V	1.3typ (I _o =100%)									
		ACIN 200V	0.7typ (I _o =100%)									
	FREQUENCY[Hz]	47 - 440 or DC										
	EFFICIENCY[%]	73typ	77typ	78typ	80typ	81typ	81typ	82typ	82typ	82typ	82typ	
	INRUSH CURRENT[A]	ACIN 100V	15typ (I _o =100%) (At cold start)									
		ACIN 200V	30typ (I _o =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	24	30	
	CURRENT[A]	*1 10	10	5.6	4.3	3.5	2.8	2.1	2.1 (3)	2.1 (3)	1.7	
	LINE REGULATION[mV]	20max	20max	36max	48max	60max	72max	96max	96max	96max	120max	
	LOAD REGULATION[mV]	40max	40max	100max	100max	120max	120max	150max	150max	150max	180max	
	RIPPLE[mVp-p]	0 to +50°C	80max	80max	120max	120max	120max	120max	120max	120max	120max	120max
		-10 - 0°C	140max	140max	160max	160max	160max	160max	160max	160max	160max	160max
	RIPPLE NOISE[mVp-p]	0 to +50°C	120max	120max	150max	150max	150max	150max	150max	250max	250max	150max
		-10 - 0°C	160max	160max	180max	180max	180max	180max	180max	280max	280max	180max
	TEMPERATURE REGULATION[mV]	60max	60max	120max	150max	180max	200max	290max	290max	290max	360max	
	DRIFT[mV]	*2 20max	20max	36max	48max	60max	72max	96max	96max	96max	120max	
	START-UP TIME[ms]	200max (ACIN 100V, I _o =100%)										
	HOLD-UP TIME[ms]	10typ (ACIN 85V, I _o =100%) 20typ (ACIN 100V, I _o =100%)										
OUTPUT VOLTAGE ADJUSTMENT RANGE[V]	2.85 - 3.6 Fixed ("Y" which can be adjusted the output is available as option :5, 9, 12, 15, 18, 24, 30V ±10%)											
OUTPUT VOLTAGE SETTING[V]	—	4.9 - 5.3	8.6 - 9.4	11.5 - 12.5	14.4 - 15.6	17.3 - 18.7	23.0 - 25.0	23.0 - 25.0	23.0 - 25.0	28.5 - 31.5		
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.60950-1 Complies with DEN-AN and IEC60950-1										
	CONDUCTED NOISE	Complies with FCC-B, CISPR22-B, EN55022-B, VCCI-B										
OTHERS	CASE SIZE/WEIGHT	55 x 26 x 195mm (W x H x D) /250g 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(24V:50.4W).

*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

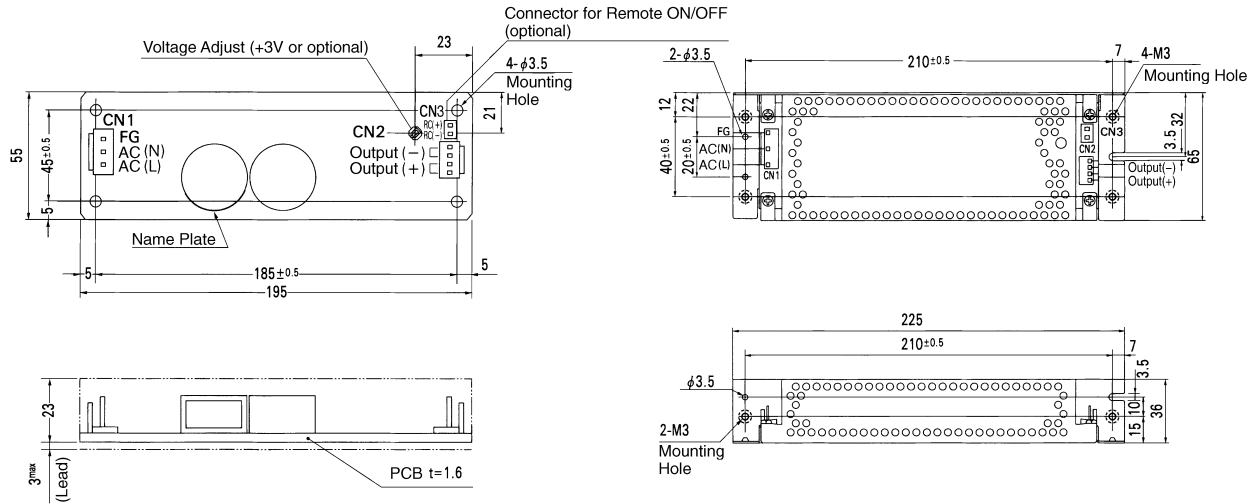
*4 Please contact us about safety approvals for the model with option.

* 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



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
CN3	B2B-XH-A	XHP-2
		Chain: SXH-001T-P0.6
		Loose: BXH-001T-P0.6

<PIN CONNECTION>

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

Pin No.	Output
1	-V
2	-V
3	+V
4	+V

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

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

※ Weight : 250g 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

(Mfr : J.S.T.)

LDA

Performance data

■ STATIC CHARACTERISTICS (LDA50F-5)



■ RISE TIME & FALL TIME (LDA50F-5)



■ OVERCURRENT CHARACTERISTICS (LDA50F-5)



■ DERATING CURVE



LDA75F

LDA 75 F -5 -□

① ② ③ ④ ⑤



Recommended EMI/EMC Filter
NAC-06-472



High voltage pulse noise type : NAP series
Low leakage current type : NAM series
* The EMI/EMC Filter is recommended to connect with several devices.

- ① Series name
- ② Output wattage
- ③ Universal input
- ④ Output voltage
- ⑤ Optional *4
- C : with Coating
- G : Low leakage current
- L : with LED
- R : with Remote ON/OFF
- S : with Chassis
- SN : with Chassis & cover
- Y : with Potentiometer

MODEL	LDA75F-3	LDA75F-5	LDA75F-9	LDA75F-12	LDA75F-15	LDA75F-18	LDA75F-24	LDA75F-24-H	LDA75F-24-HR	LDA75F-30
MAX OUTPUT WATTAGE[W]	45	75	76.5	75.6	75	75.6	76.8	76.8	76.8	75
DC OUTPUT	*3 3V 15A	5V 15A	9V 8.5A	12V 6.3A	15V 5A	18V 4.2A	24V 3.2A	24V 3.2(4.5)A	24V 3.2(4.5)A	30V 2.5A

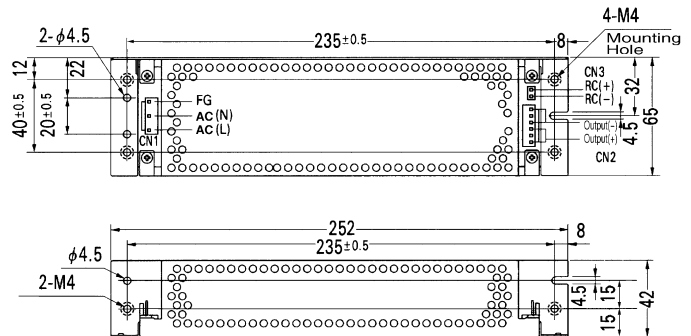
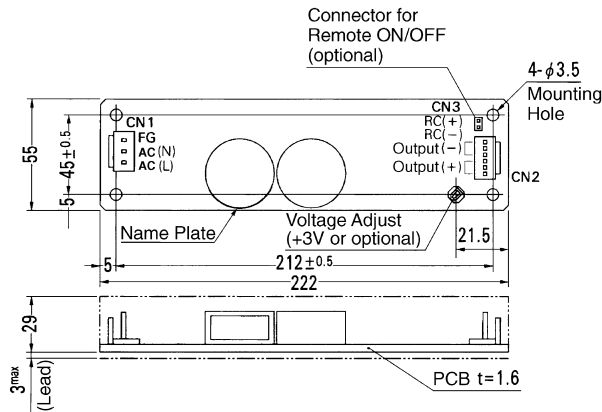
SPECIFICATIONS

	MODEL	LDA75F-3	LDA75F-5	LDA75F-9	LDA75F-12	LDA75F-15	LDA75F-18	LDA75F-24	LDA75F-24-H	LDA75F-24-HR	LDA75F-30
INPUT	VOLTAGE[V]	AC85 - 264 1 φ or DC110 - 370									
	CURRENT[A]	ACIN 100V	1.8typ (Io=100%)								
		ACIN 200V	1.0typ (Io=100%)								
	FREQUENCY[Hz]	47 - 440									
	EFFICIENCY[%]	73typ	79typ	79typ	80typ	81typ	81typ	82typ	82typ	82typ	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	24	30
	CURRENT[A]	*1 15	15	8.5	6.3	5	4.2	3.2	3.2 (4.5)	3.2 (4.5)	2.5
	LINE REGULATION[mV]	20max	20max	36max	48max	60max	72max	96max	96max	96max	120max
	LOAD REGULATION[mV]	40max	40max	100max	100max	120max	120max	150max	150max	150max	180max
	RIPPLE[mVp-p]	0 to +50℃	80max	80max	120max	120max	120max	120max	120max	120max	120max
		-10 - 0℃	140max	140max	160max	160max	160max	160max	160max	160max	160max
	RIPPLE NOISE[mVp-p]	0 to +50℃	120max	120max	150max	150max	150max	150max	150max	250max	250max
		-10 - 0℃	160max	160max	180max	180max	180max	180max	180max	280max	280max
	TEMPERATURE REGULATION[mV]	60max	60max	120max	150max	180max	200max	290max	290max	290max	360max
	DRIFT[mV]	*2 20max	20max	36max	48max	60max	72max	96max	96max	96max	120max
	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, 9, 12, 15, 18, 24, 30V ±10%)										
OUTPUT VOLTAGE SETTING[V]	—	4.9 - 5.3	8.6 - 9.4	11.5 - 12.5	14.4 - 15.6	17.3 - 18.7	23.0 - 25.0	23.0 - 25.0	23.0 - 25.0	28.5 - 31.5	
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/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.60950-1 Complies with DEN-AN and IEC60950-1									
	CONDUCTED NOISE	Complies with FCC-B, CISPR22-B, EN55022-B, VCCI-B									
OTHERS	CASE SIZE/WEIGHT	55 x 32 x 222mm (W x H x D) /320g 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(24V:76.8W).
 *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
 *4 Please contact us about safety approvals for the model with option.

* 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



I/O Connector	Mating Connector	Terminal
CN1	B3P5-VH	VHR-5N
CN2	B6P-VH	VHR-6N
CN3	B2B-XH-A	XHP-2

(Mfr : J.S.T.)

<PIN CONNECTION>

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

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

Pin No.	Output
1~3	-V
4~6	+V

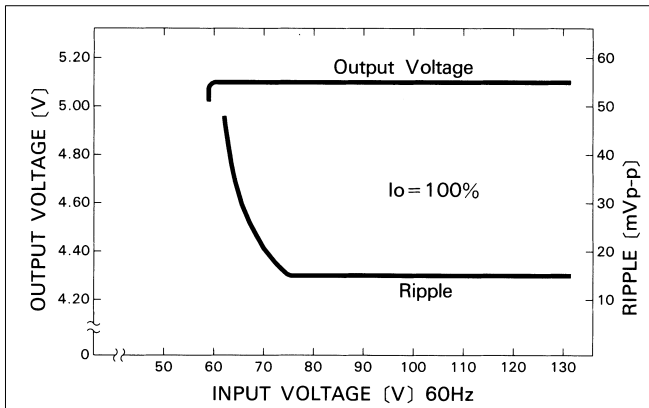
Pin No.	Remote ON/OFF
1	RC(+)
2	RC(-)

- ※ Weight : 320g 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

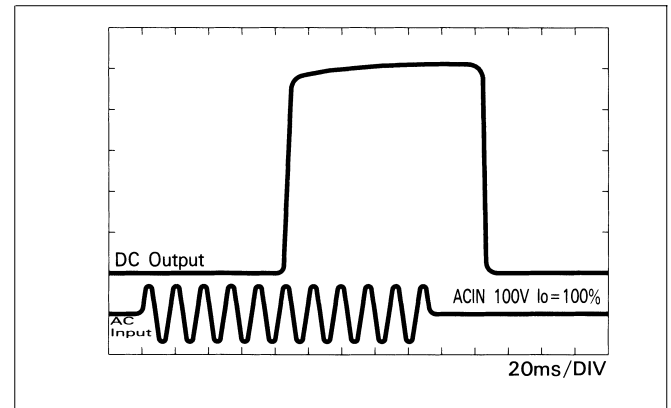
LDA

Performance data

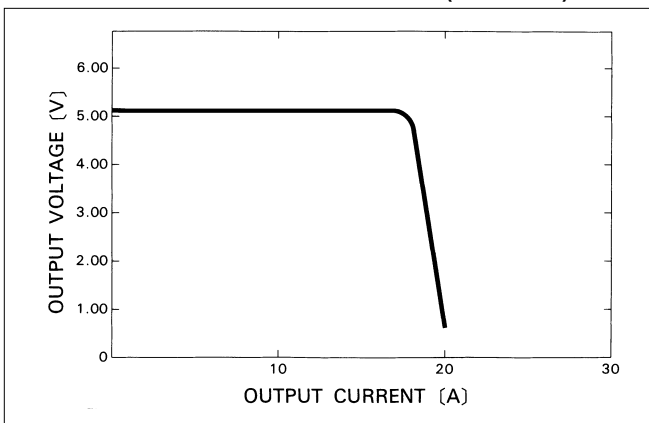
■ STATIC CHARACTERISTICS (LDA75F-5)



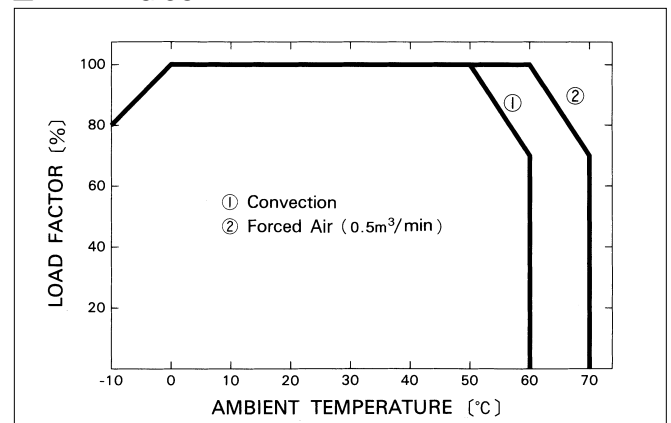
■ RISE TIME & FALL TIME (LDA75F-5)



■ OVERCURRENT CHARACTERISTICS (LDA75F-5)



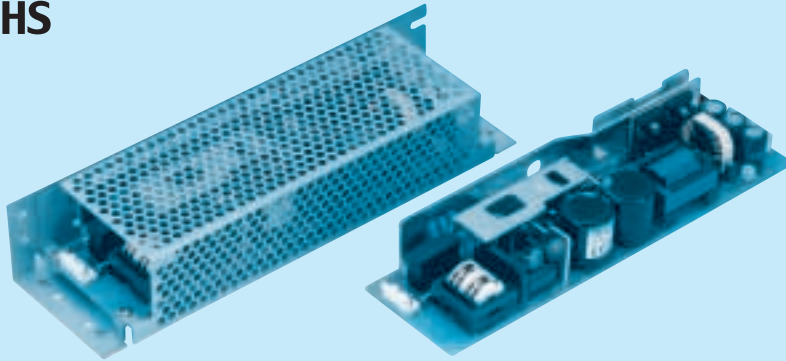
■ DERATING CURVE



LDA100W

LDA 100 W -5 -□

① ② ③ ④ ⑤



Recommended EMI/EMC Filter
NAC-06-472



High voltage pulse noise type : NAP series
Low leakage current type : NAM series
*The EMI/EMC Filter is recommended to connect with several devices.

- ① Series name
- ② Output wattage
- ③ Autoranging input
- ④ Output voltage
- ⑤ Optional *4
- 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℃	80max	80max	120max	120max	120max	120max	150max	150max	180max	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 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℃, with the input voltage held constant at the rated input/output.
- *3 () : peak current
- *4 Please contact us about safety approvals for the model with option.

- * 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.)

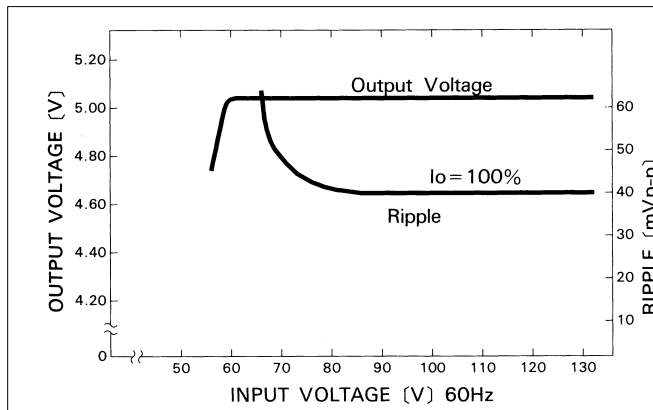
<PIN CONNECTION>

Pin No.	Input	Pin No.	Output	Pin No.	Remote ON/OFF
1	AC(L)	1~4	-V	1	RC(+)
2				2	RC(-)
3	AC(N)				
4		5~8	+V		
5	FG				

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

Performance data

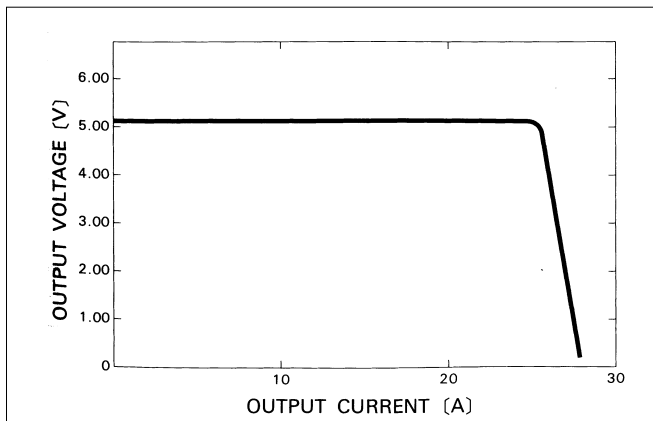
■ STATIC CHARACTERISTICS (LDA100W-5)



■ RISE TIME & FALL TIME (LDA100W-5)



■ OVERCURRENT CHARACTERISTICS (LDA100W-5)



■ DERATING CURVE



LDA150W

LDA 150 W -5 -□

① ② ③ ④ ⑤



Recommended EMI/EMC Filter
NAC-06-472



High voltage pulse noise type : NAP series
Low leakage current type : NAM series
*The EMI/EMC Filter is recommended to connect with several devices.

- ① Series name
- ② Output wattage
- ③ Autoranging input
- ④ Output voltage
- ⑤ Optional *4
- C :with Coating
- G :Low leakage current
- L :with LED
- R :with Remote ON/OFF
- S :with Chassis
- SN :with Chassis & cover
- Y :with Potentiometer

MODEL	LDA150W-3	LDA150W-5	LDA150W-9	LDA150W-12	LDA150W-15	LDA150W-18	LDA150W-24	LDA150W-24-H	LDA150W-30	LDA150W-48
MAX OUTPUT WATTAGE[W]	90	150	153	150	150	153	151.2	151.2	150	144
DC OUTPUT	*3 3V 30A	5V 30A	9V 17A	12V 12.5A	15V 10A	18V 8.5A	24V 6.3A	24V 6.3(10)A	30V 5A	48V 3A

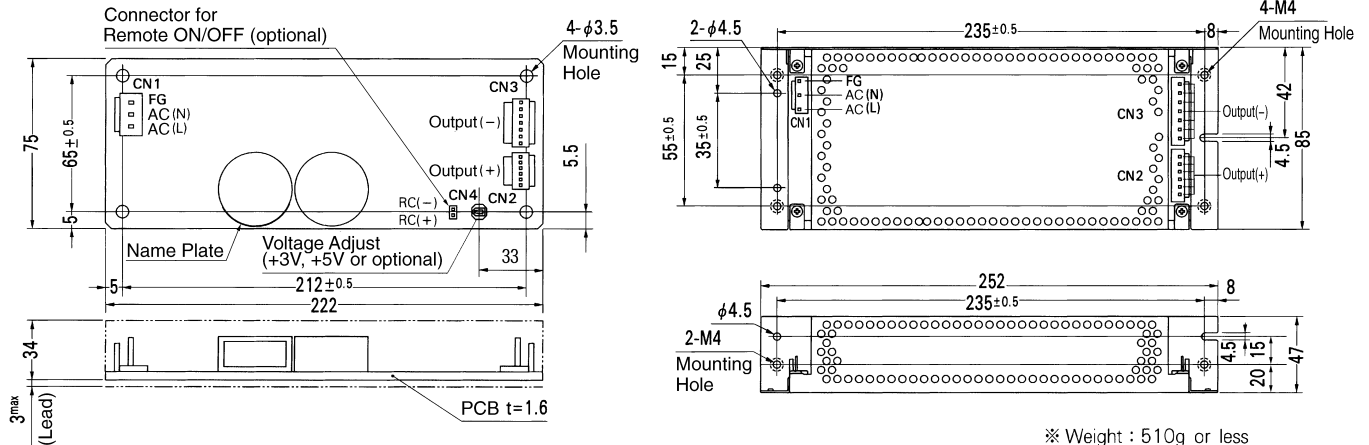
SPECIFICATIONS

	MODEL	LDA150W-3	LDA150W-5	LDA150W-9	LDA150W-12	LDA150W-15	LDA150W-18	LDA150W-24	LDA150W-24-H	LDA150W-30	LDA150W-48	
INPUT	VOLTAGE[V]	AC 85 - 132 / 170 - 264 1 ϕ										
	CURRENT[A]	ACIN 100V	3.6typ (Io=100%)									
		ACIN 200V	2.0typ (Io=100%)									
	FREQUENCY[Hz]	47 - 440										
	EFFICIENCY[%]	75typ	79typ	79typ	82typ	83typ	84typ	85typ	85typ	85typ	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 30	30	17	12.5	10	8.5	6.3	6.3(10)	5	3	
	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	220max	120max	150max
		-10 - 0℃	140max	140max	160max	160max	160max	160max	160max	260max	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	28.5 - 31.5	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	75 x 37 x 222mm (W x H x D) /510g 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(24V:151.2W).
- *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
- *4 Please contact us about safety approvals for the model with option.

- * 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



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
CN3	B7P-VH	VHR-7N
		Chain: SVH-21T-P1.1
		Loose: BVH-21T-P1.1
CN4	B2B-XH-A	XHP-2
		Chain: SXH-001T-P0.6
		Loose: BXH-001T-P0.6

(Mfr : J.S.T.)

<PIN CONNECTION>

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

※ Keep drawing current per pin below 5A for CN2, CN3.

Pin No.	Output
1~6	+V
1~7	-V

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

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

※ Tolerance : ±1

※ Dimensions in mm.

※ PCB Material : Glass composite
(CEM3)

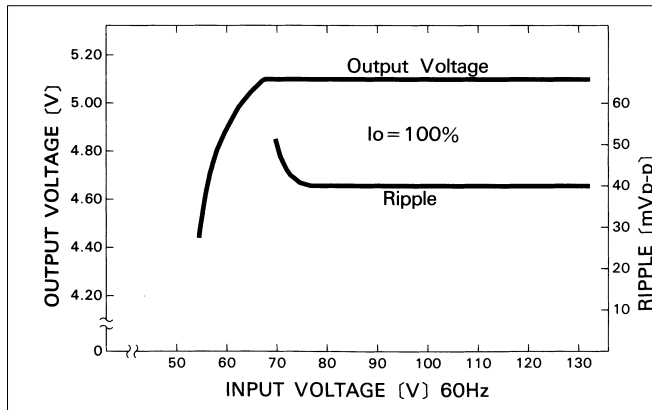
※ Chassis and cover is optional.

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

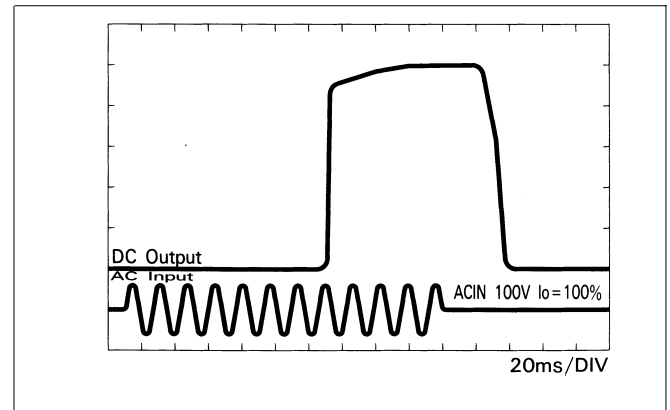
※ Mounting torque : 1.5 N·m (16 kgf·cm) max

Performance data

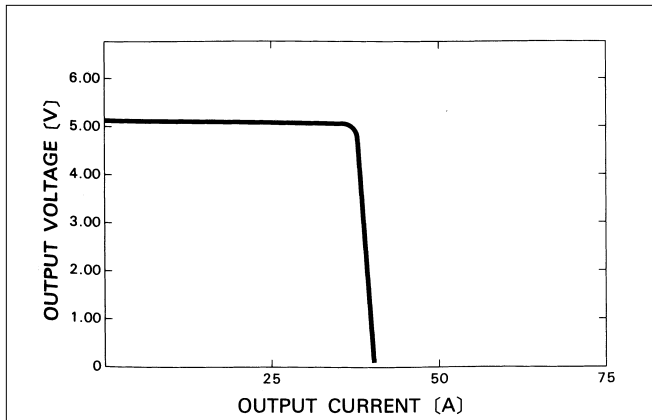
■ STATIC CHARACTERISTICS (LDA150W-5)



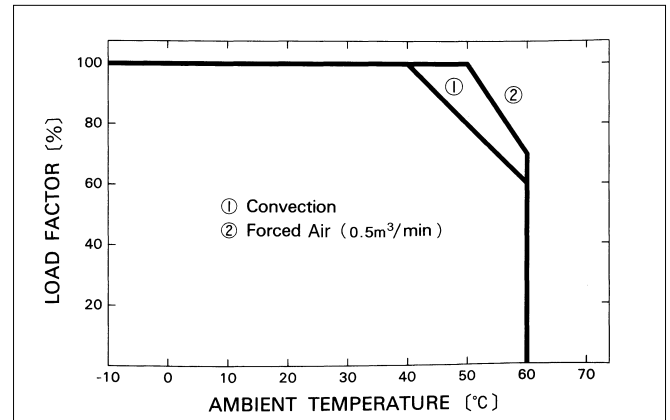
■ RISE TIME & FALL TIME (LDA150W-5)



■ OVERCURRENT CHARACTERISTICS (LDA150W-5)



■ DERATING CURVE



LDA300W

LDA 300 W -5 -□

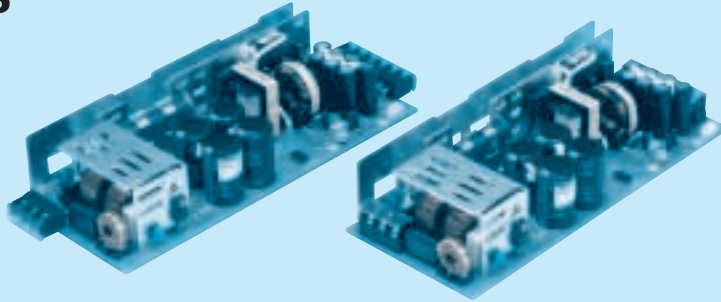
①

②

③

④

⑤



Recommended EMI/EMC Filter
NAC-16-472



High voltage pulse noise type : NAP series
Low leakage current type : NAM series
* The EMI/EMC Filter is recommended to connect with several devices.

- ① Series name
- ② Output wattage
- ③ Autoranging input
- ④ Output voltage
- ⑤ Optional *4
- C :with Coating
- G :Low leakage current
- L :with LED
- R :with Remote ON/OFF
- S :with Chassis
- SNF :with Chassis & cover & fan
- T :Vertical terminal block

MODEL	LDA300W-3	LDA300W-5	LDA300W-9	LDA300W-12	LDA300W-15	LDA300W-18	LDA300W-24	LDA300W-30	LDA300W-48
MAX OUTPUT WATTAGE[W]	180	300	306	324	330	306	336	300	302.4
DC OUTPUT	3V 60A	5V 60A	9V 34A	12V 27A	15V 22A	18V 17A	24V 14A	30V 10A	48V 6.3A

SPECIFICATIONS

	MODEL	LDA300W-3	LDA300W-5	LDA300W-9	LDA300W-12	LDA300W-15	LDA300W-18	LDA300W-24	LDA300W-30	LDA300W-48	
INPUT	VOLTAGE[V]	AC 85 - 132 / 170 - 264 1 ϕ									
	CURRENT[A]	ACIN 100V	7.5typ (Io=100%)								
		ACIN 200V	4.5typ (Io=100%)								
	FREQUENCY[Hz]	47 - 440									
	EFFICIENCY[%]	ACIN 100V	72typ	78typ	78typ	80typ	81typ	81typ	83typ	83typ	83typ
		ACIN 200V	74typ	81typ	81typ	83typ	84typ	84typ	86typ	86typ	86typ
	INRUSH CURRENT[A]	ACIN 100V	15/30A typ (Primary/Secondary Surge Current) Io=100% (More than 3sec.to re-start)								
ACIN 200V		30/30typ (Primary/Secondary Surge Current) Io=100% (More than 3sec.to re-start)									
OUTPUT	LEAKAGE CURRENT[ma]	0.75max (60Hz, According to UL, CSA, VDE and DEN-AN)									
	VOLTAGE[V]	3	5	9	12	15	18	24	30	48	
	CURRENT[A]	Forced air	60	60	34	27	22	17	14	10	6.3
		Convection *1	40 (60)	40 (60)	23 (34)	17 (27)	14 (22)	12 (17)	9 (14)	7 (10)	4.2 (6.3)
	LINE REGULATION[mV]	20max	20max	36max	48max	60max	72max	96max	120max	192max	
	LOAD REGULATION[mV]	40max	40max	100max	100max	120max	120max	150max	180max	240max	
	RIPPLE[mVp-p]	0 to +50℃ *2	80max	80max	120max	120max	120max	120max	120max	120max	150max
		-10 - 0℃ *2	140max	140max	160max	160max	160max	160max	160max	160max	200max
	RIPPLE NOISE[mVp-p]	0 to +50℃ *2	120max	120max	150max	150max	150max	150max	150max	150max	400max
		-10 - 0℃ *2	160max	160max	180max	180max	180max	180max	180max	180max	600max
	TEMPERATURE REGULATION[mV]	60max	60max	120max	150max	180max	200max	290max	360max	560max	
	DRIFT[mV]	*3	20max	20max	36max	48max	60max	72max	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 5, 9, 12, 15, 18, 24, 30, 48V ±10%										
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	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 +70℃, 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, C-UL, EN60950-1, EN50178 Complies with DEN-AN and IEC60950-1									
	CONDUCTED NOISE	Complies with FCC-B, CISPR22-B, EN55022-B, VCCI-B									
OTHERS	CASE SIZE/WEIGHT	108×50×255mm (W×H×D) /1kg max (without terminal block)									
	COOLING METHOD	Convection / Forced air (Refer to DERATING CURVE)									

*1 Peak load for 30sec. or less is acceptable if the total wattage is less than the rated wattage.

*2 This is the value that measured on measuring board with capacitor of 22 μF within 150mm from output terminal.

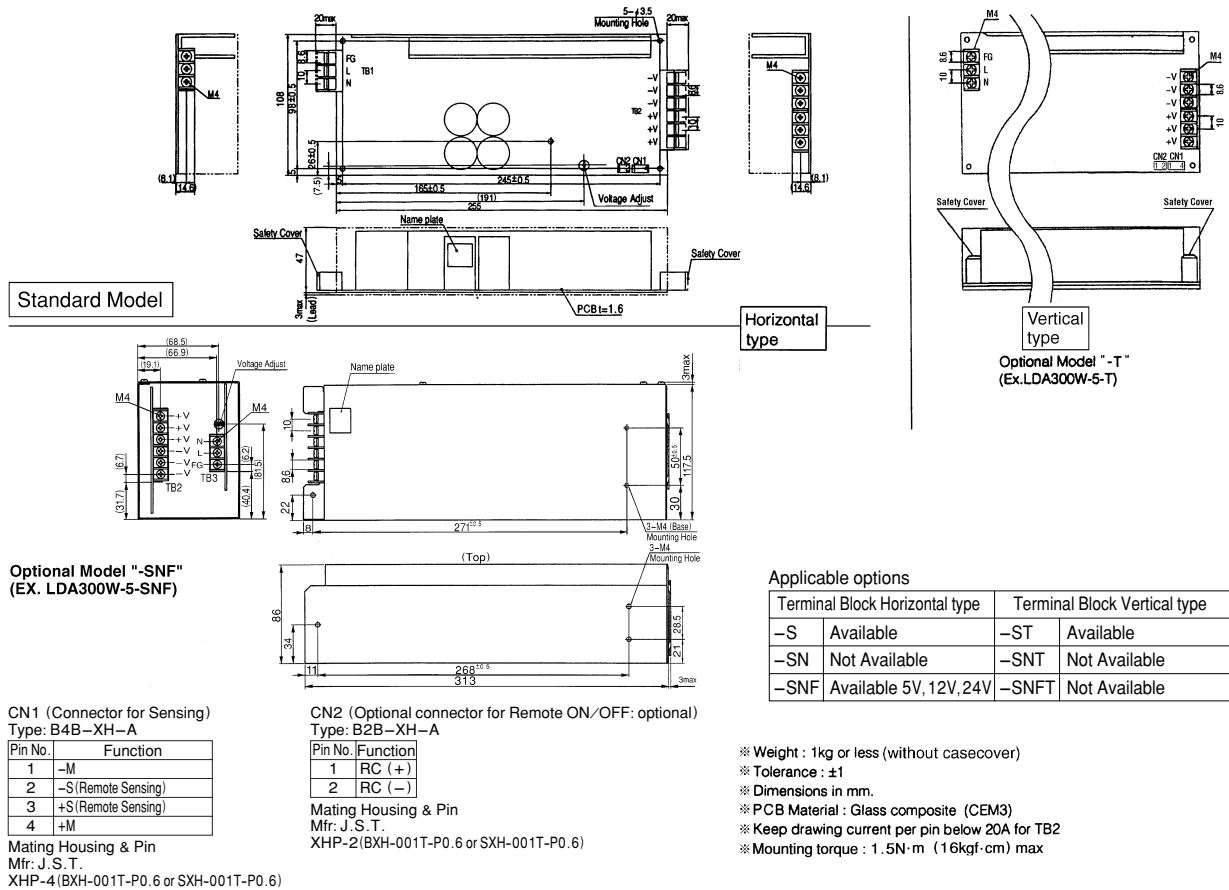
*3 Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25℃, with the input voltage held constant at the rated input/output.

*4 Please contact us about safety approvals for the model with option.

* Parallel operation with other model is not possible.

* Derating is required when operated with chassis and cover.

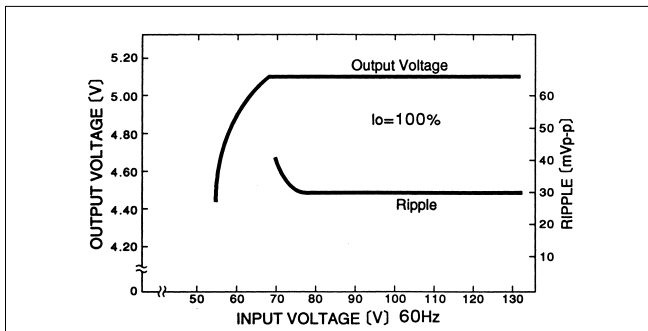
External view



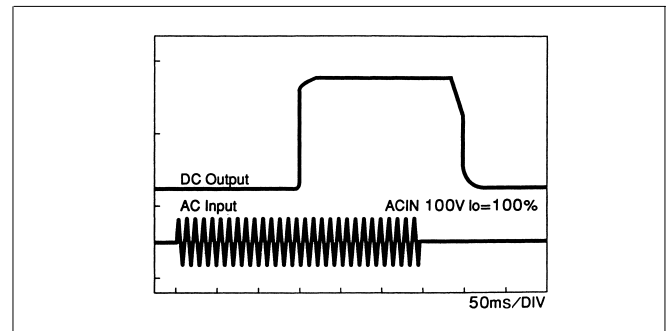
LDA

Performance data

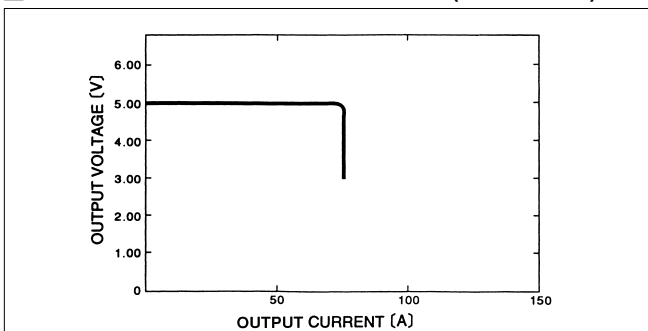
■ STATIC CHARACTERISTICS (LDA300W-5)



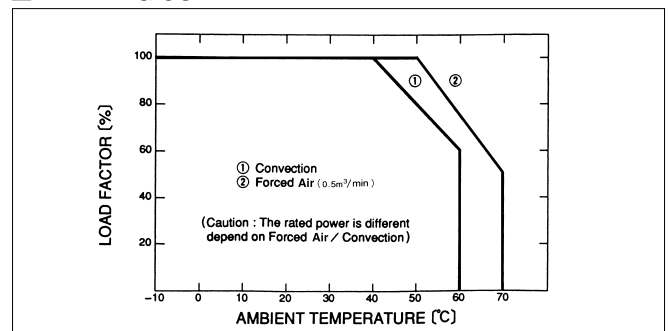
■ RISE TIME & FALL TIME (LDA300W-5)



■ OVERCURRENT CHARACTERISTICS (LDA300W-5)



■ DERATING CURVE



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