

COSEL AC-DC Power Supplies Open Frame/Enclosed type

**LDA10F**

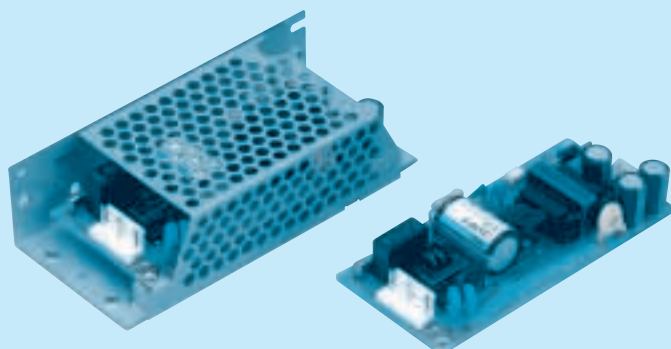
Ordering information

**LDA 10 F -5 -□**

① ② ③ ④ ⑤



RoHS


**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 1φ 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°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 ±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°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 <sup>2</sup> (2G), 3minutes period, 60minutes each along X, Y and Z axis					
	IMPACT	196.1m/s <sup>2</sup> (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 105mm (W x H x 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°C, with the input voltage held constant at the rated input/output.

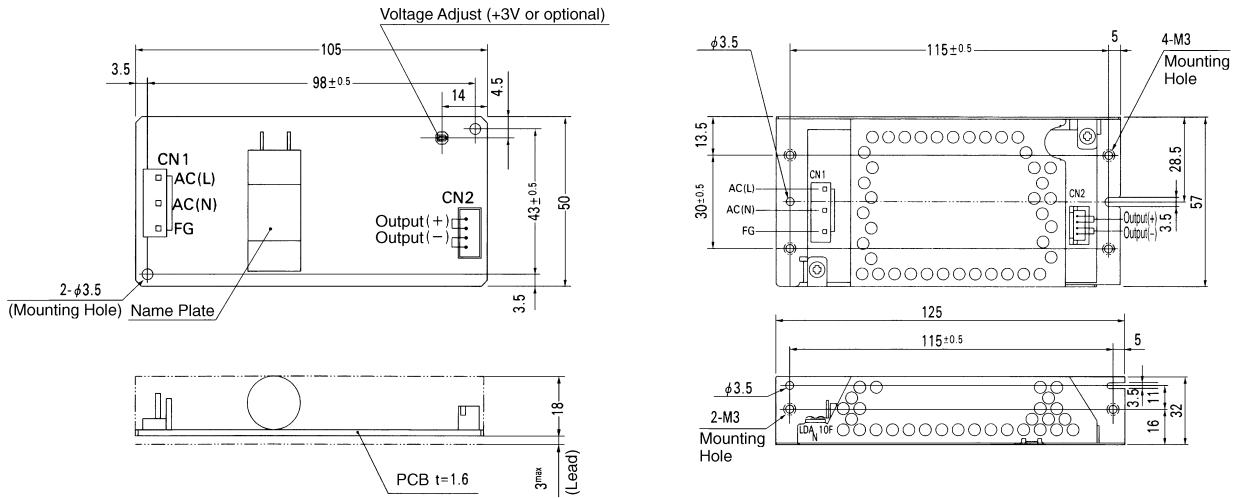
\*2 Please contact us about safety approvals for the model with option.

\* 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.)

<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

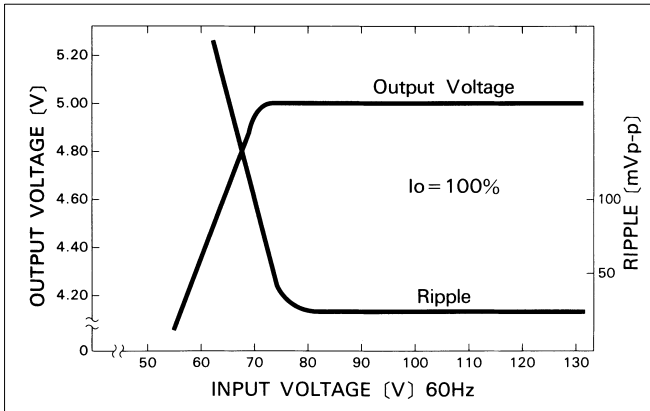
※ Keep drawing current per pin below 2A for CN2.

- ※ 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

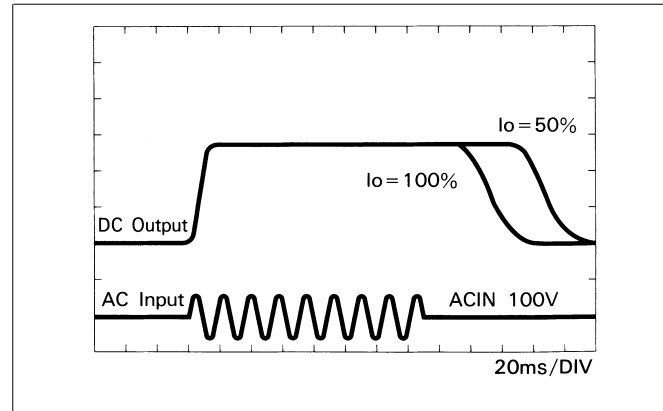
LDA

Performance data

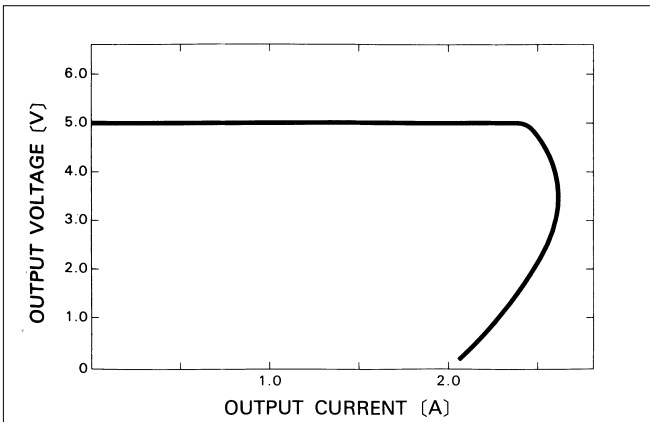
■ STATIC CHARACTERISTICS (LDA10F-5)



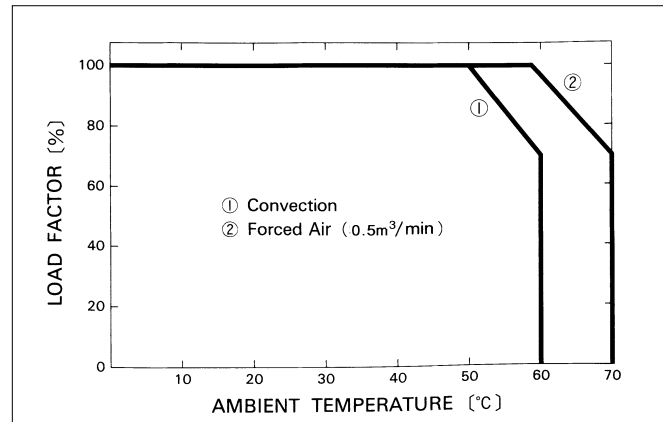
■ RISE TIME & FALL TIME (LDA10F-5)



■ OVERCURRENT CHARACTERISTICS (LDA10F-5)



■ DERATING CURVE



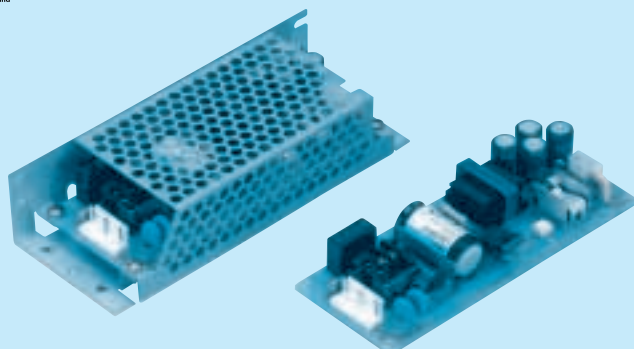
COSEL AC-DC Power Supplies Open Frame/Enclosed type

**LDA15F**

Ordering information

**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 1φ 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 ±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°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 <sup>2</sup> (2G), 3minutes period, 60minutes each along X, Y and Z axis					
	IMPACT	196.1m/s <sup>2</sup> (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.

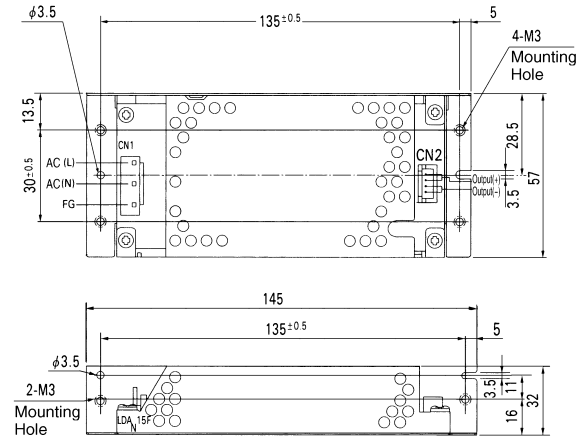
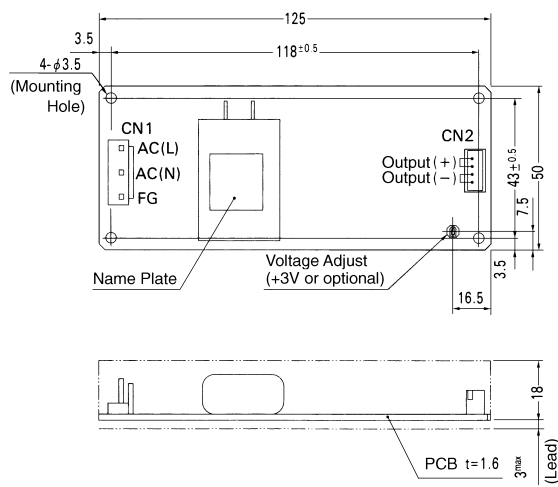
\*2 Please contact us about safety approvals for the model with option.

\* 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.)

<PIN CONNECTION>

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

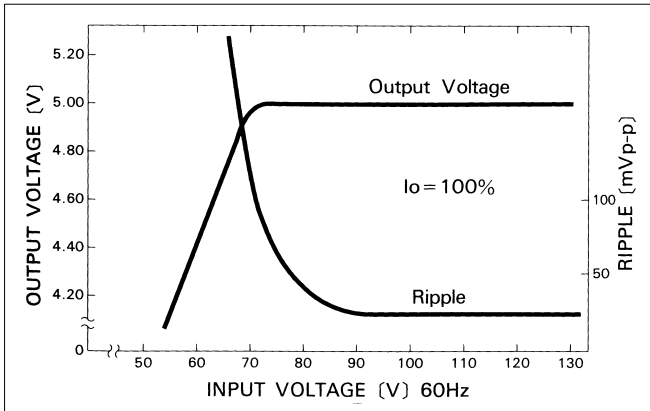
Pin No.	Output
1	-V
2	-V
3	+V
4	+V

- ※ 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

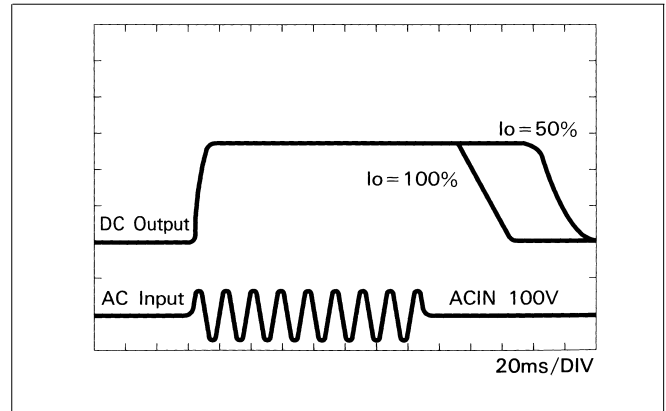
LDA

Performance data

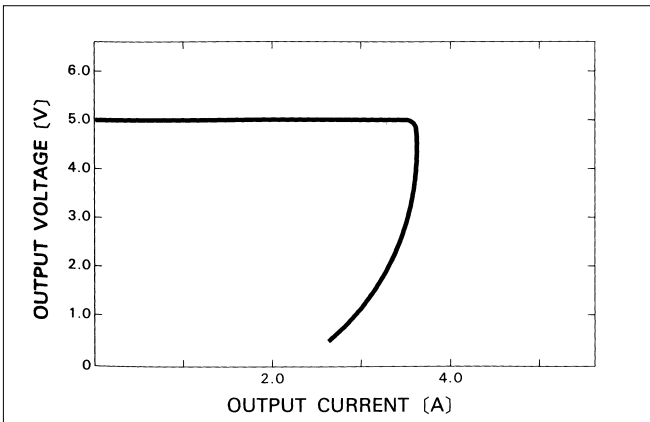
■ STATIC CHARACTERISTICS (LDA15F-5)



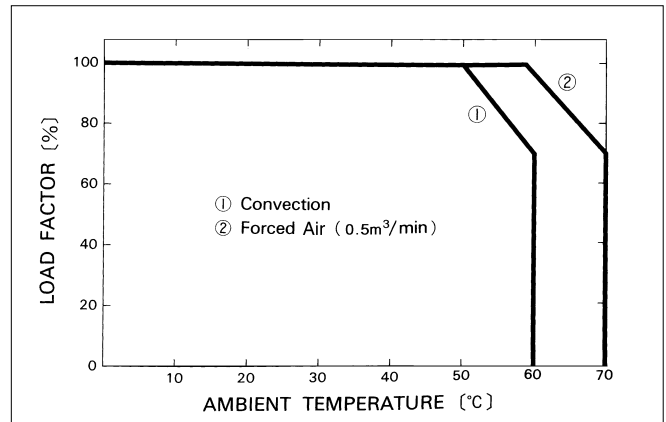
■ RISE TIME & FALL TIME (LDA15F-5)



■ OVERCURRENT CHARACTERISTICS (LDA15F-5)



■ DERATING CURVE



COSEL AC-DC Power Supplies Open Frame/Enclosed type

**LDA30F**

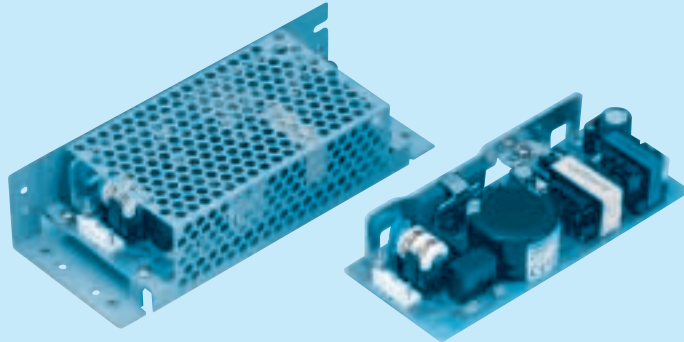
Ordering information

**LDA 30 F -5 -□**

① ② ③ ④ ⑤



RoHS


**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]	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°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 <sup>2</sup> (2G), 3minutes period, 60minutes each along X, Y and Z axis					
	IMPACT	196.1m/s <sup>2</sup> (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.

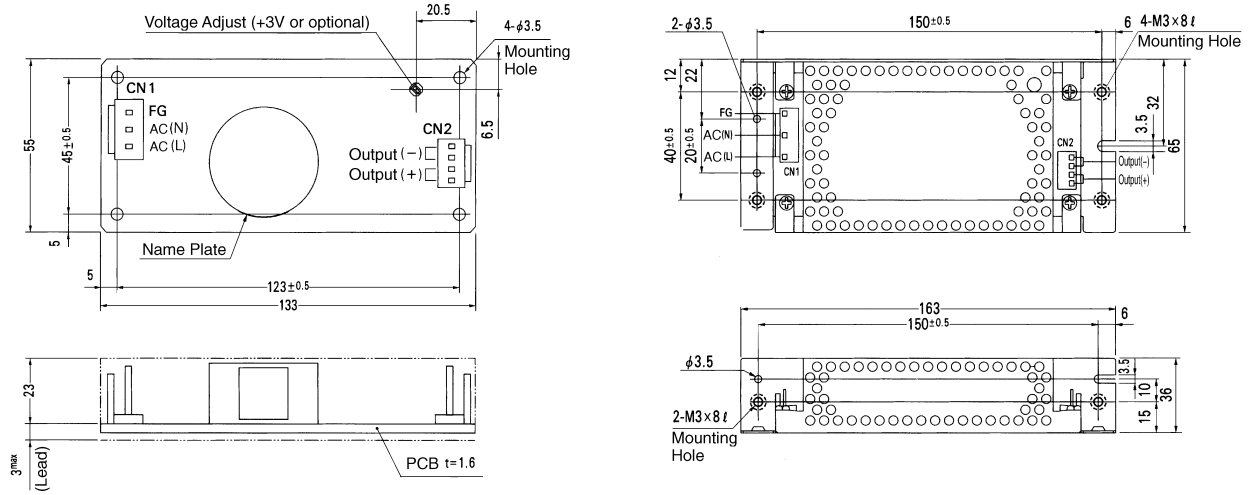
\*2 Please contact us about safety approvals for the model with option.

\* 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	
3	AC(N)
4	
5	FG

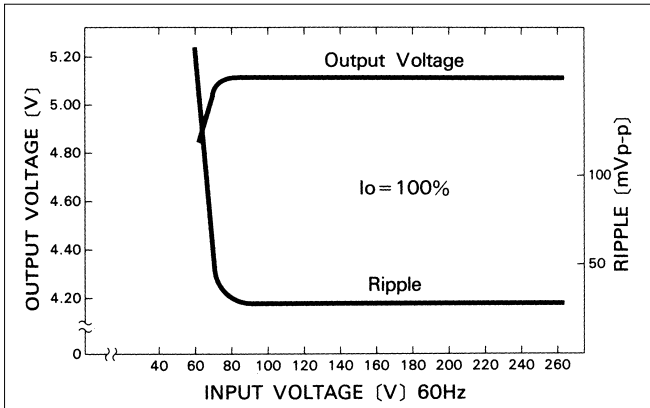
Pin No.	Output
1	-V
2	-V
3	+V
4	+V

- ※ 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.

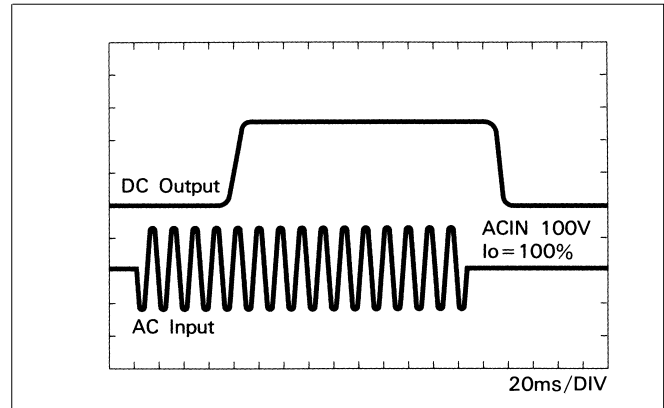
LDA

Performance data

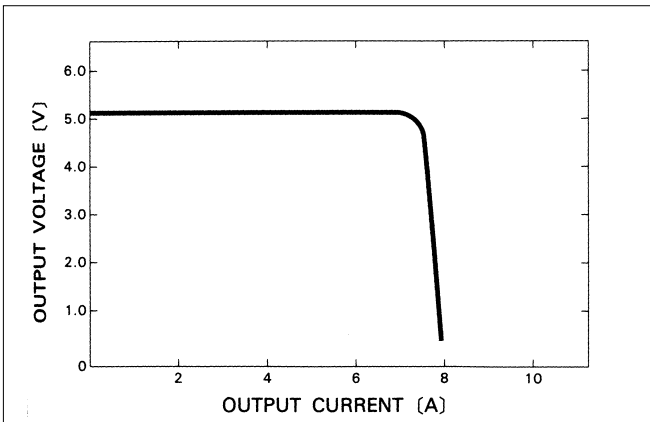
■ STATIC CHARACTERISTICS (LDA30F-5)



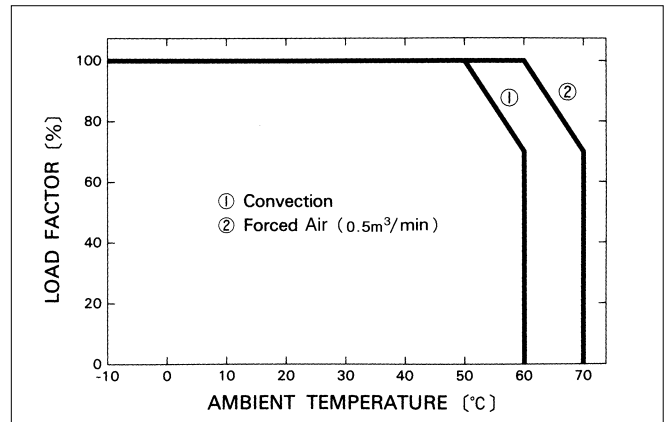
■ RISE TIME & FALL TIME (LDA30F-5)



■ OVERCURRENT CHARACTERISTICS (LDA30F-5)



■ DERATING CURVE





COSEL AC-DC Power Supplies Open Frame/Enclosed type

**LDA50F**

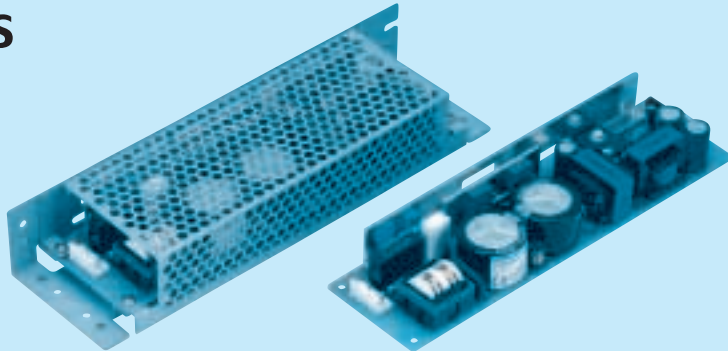
Ordering information

**LDA 50 F -5 -□**

① ② ③ ④ ⑤



RoHS

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
VOLTAGE[V]	AC85 - 264 1 φ or DC110 - 370									
CURRENT[A]	ACIN 100V	1.3typ (Io=100%)								
	ACIN 200V	0.7typ (Io=100%)								
FREQUENCY[Hz]	47 - 440 or DC									
EFFICIENCY[%]	73typ	77typ	78typ	80typ	81typ	81typ	82typ	82typ	82typ	82typ
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)									
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
	-10 - 0°C	140max	140max	160max	160max	160max	160max	160max	160max	160max
RIPPLE NOISE[mVp-p]	0 to +50°C	120max	120max	150max	150max	150max	150max	150max	250max	150max
	-10 - 0°C	160max	160max	180max	180max	180max	180max	180max	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, 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
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)									
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)									
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 <sup>2</sup> (2G), 3minutes period, 60minutes each along X, Y and Z axis									
IMPACT	196.1m/s <sup>2</sup> (20G), 11ms, once each X, Y and Z axis									
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									
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.

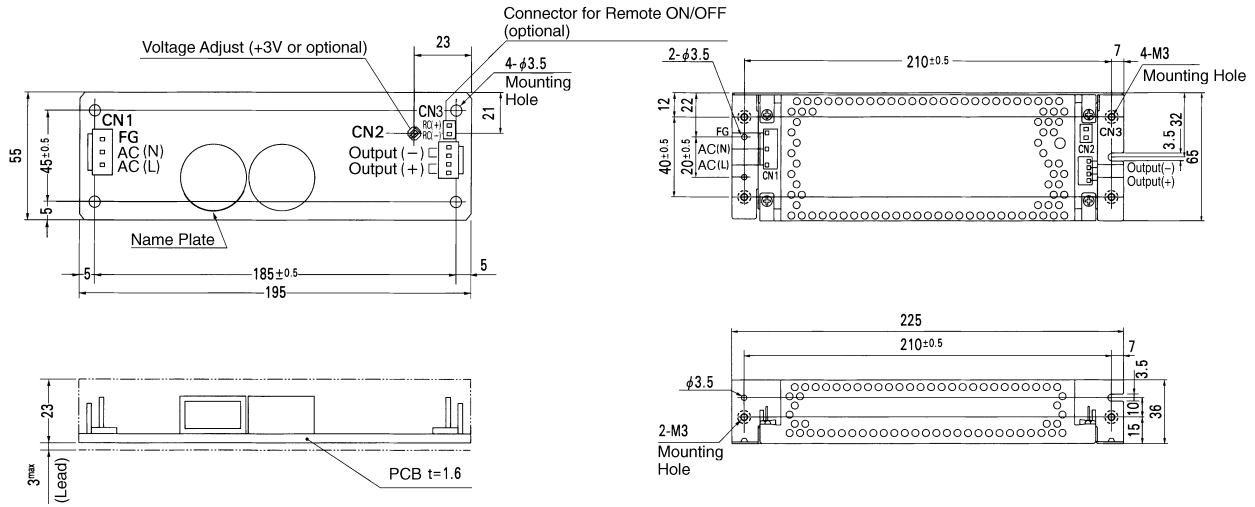
\* Avoid prolonged use under over-load.

\* Parallel operation with other model is not possible.

\* Derating is required when operated with chassis and cover.

LDA-8

External view



I/O Connector	Mating Connector	Terminal
CN1	B3P5-VH	VHR-5N
CN2	B4P-VH	VHR-4N
CN3	B2B-XH-A	XHP-2

<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)

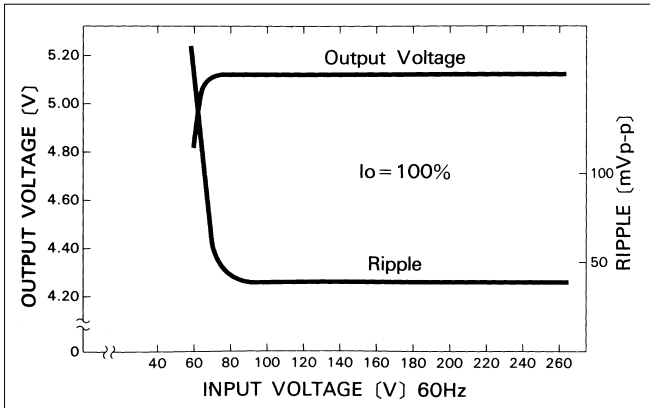
- ※ Tolerance : ± 1
- ※ Dimensions in mm.
- ※ PCB Material : Glass composite (CEM3)
- ※ Chassis and cover is optional.

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

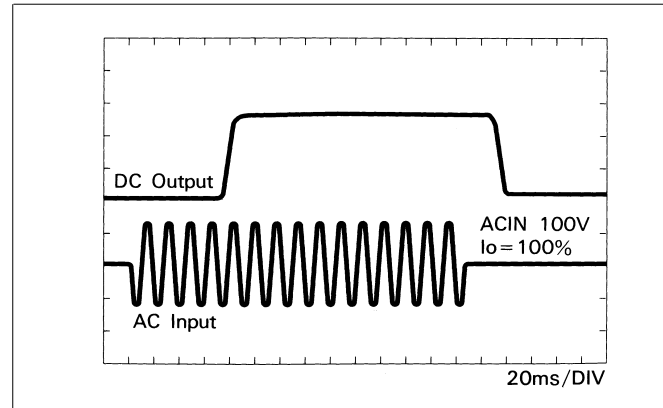
LDA

Performance data

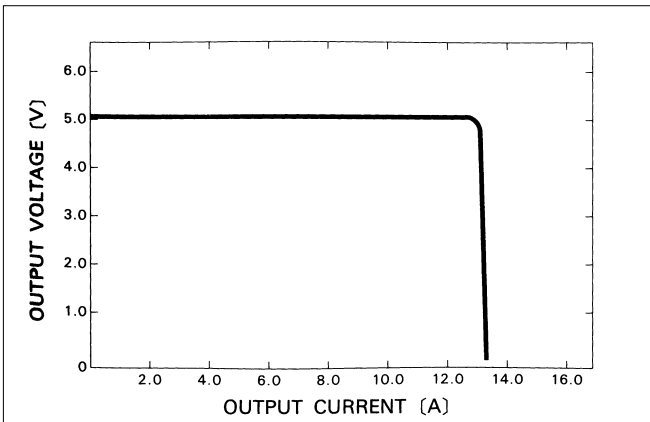
■ STATIC CHARACTERISTICS (LDA50F-5)



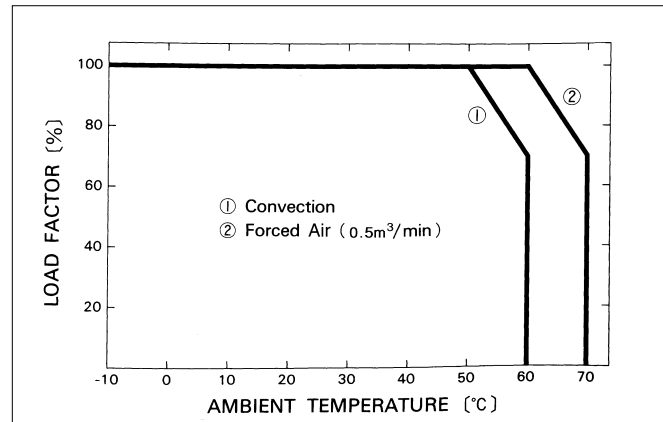
■ RISE TIME & FALL TIME (LDA50F-5)



■ OVERCURRENT CHARACTERISTICS (LDA50F-5)



■ DERATING CURVE





COSEL AC-DC Power Supplies Open Frame/Enclosed type

**LDA75F**

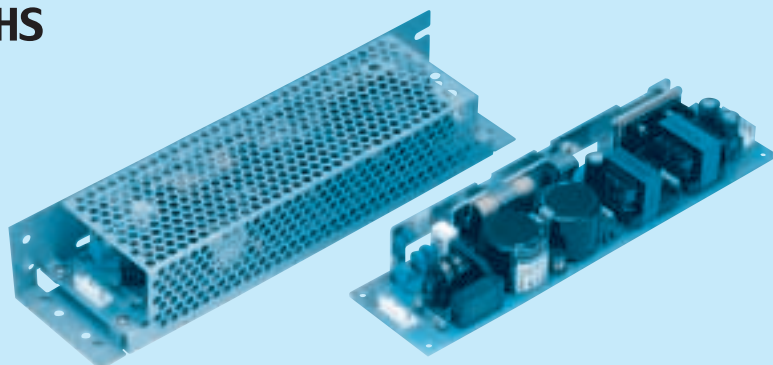
Ordering information

**LDA 75 F -5 -□**

① ② ③ ④ ⑤



RoHS


**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°C	80max	80max	120max	120max	120max	120max	120max	120max	120max	
		-10 - 0°C	140max	140max	160max	160max	160max	160max	160max	160max	160max	
	RIPPLE NOISE[mVp-p]	0 to +50°C	120max	120max	150max	150max	150max	150max	150max	250max	250max	
		-10 - 0°C	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°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 <sup>2</sup> (2G), 3minutes period, 60minutes each along X, Y and Z axis										
	IMPACT	196.1m/s <sup>2</sup> (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°C, with the input voltage held constant at the rated input/output.

\*3 ( ) : peak current

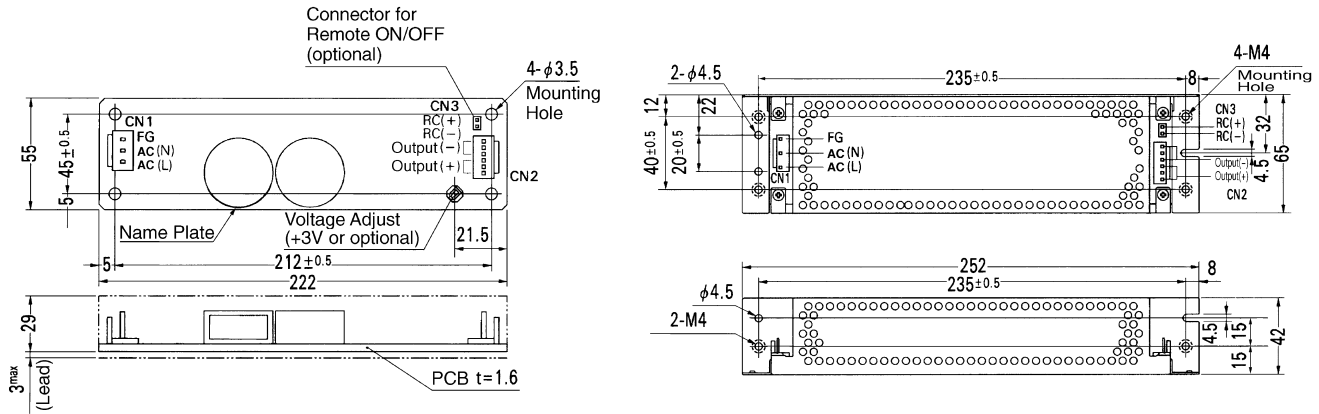
\*4 Please contact us about safety approvals for the model with option.

\* 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
CN2	B6P-VH	VHR-6N
CN3	B2B-XH-A	XHP-2

<PIN CONNECTION>

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

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

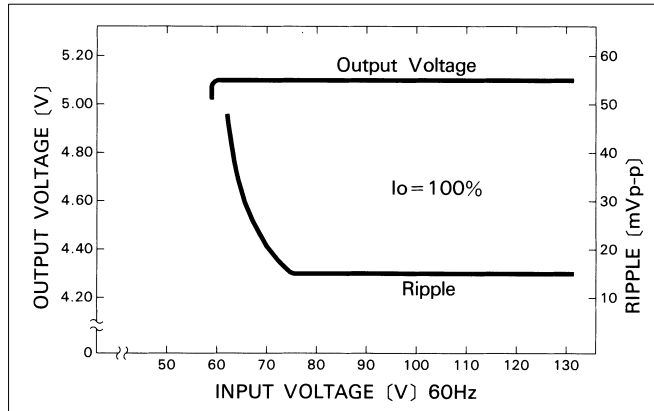
(Mfr : J.S.T.)

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

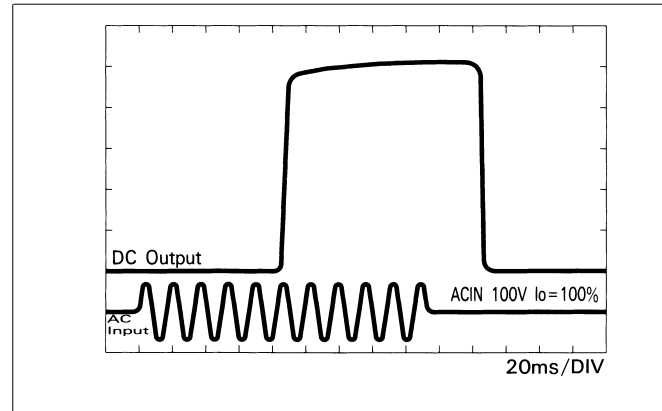
LDA

Performance data

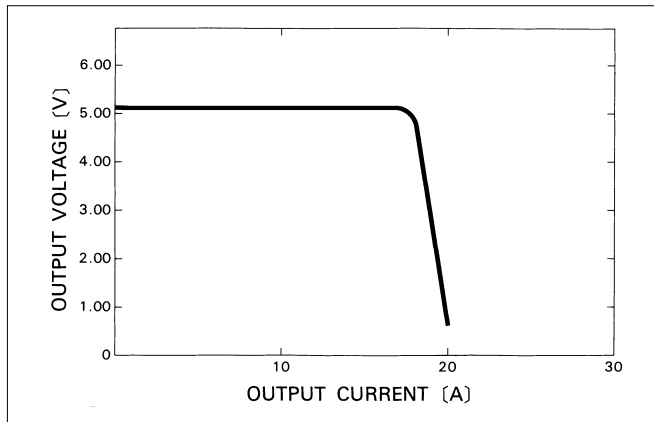
■ STATIC CHARACTERISTICS (LDA75F-5)



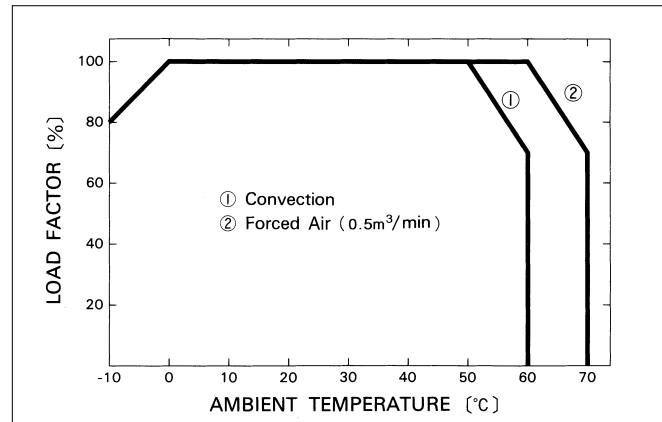
■ RISE TIME & FALL TIME (LDA75F-5)



■ OVERCURRENT CHARACTERISTICS (LDA75F-5)



■ DERATING CURVE



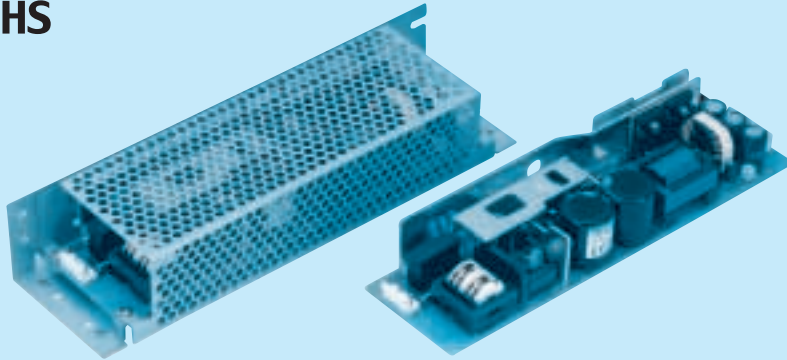
COSEAL AC-DC Power Supplies Open Frame/Enclosed type

## LDA100W

Ordering information

LDA 100 W -5 -□

① ② ③ ④ ⑤

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 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	MODEL											
	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	150max
			-10 - 0°C									
			140max	140max	160max	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 <sup>2</sup> (2G), 3minutes period, 60minutes each along X, Y and Z axis												
IMPACT												
196.1m/s <sup>2</sup> (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

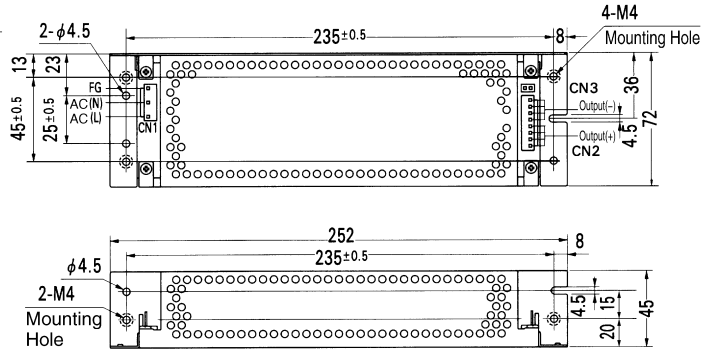
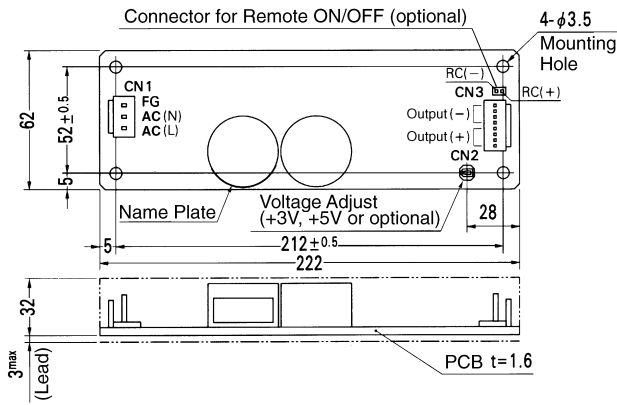
\*4 Please contact us about safety approvals for the model with option.

\* 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>

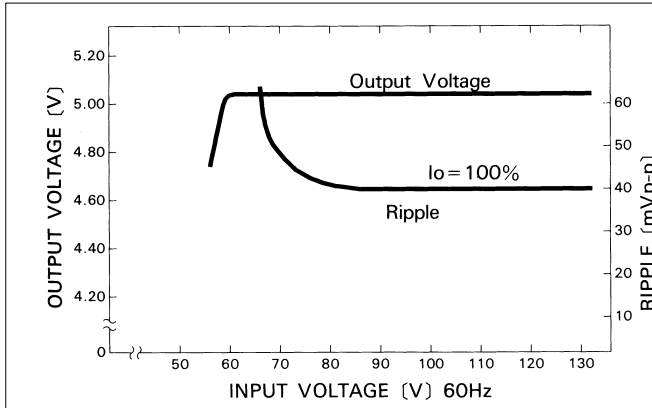
CN1	Pin No.	Input	CN2	Pin No.	Output	CN3	Pin No.	Remote ON/OFF
	1	AC(L)		1~4	-V		1	RC(+)
	2	AC(N)						
	3	AC(N)		5~8	+V		2	RC(-)
	4	FG						
5	FG							

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

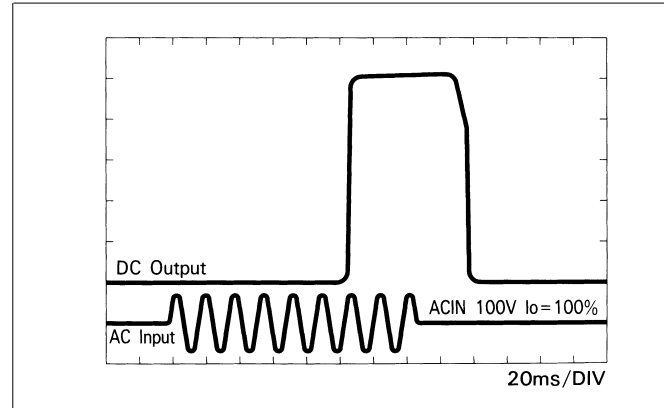
LDA

Performance data

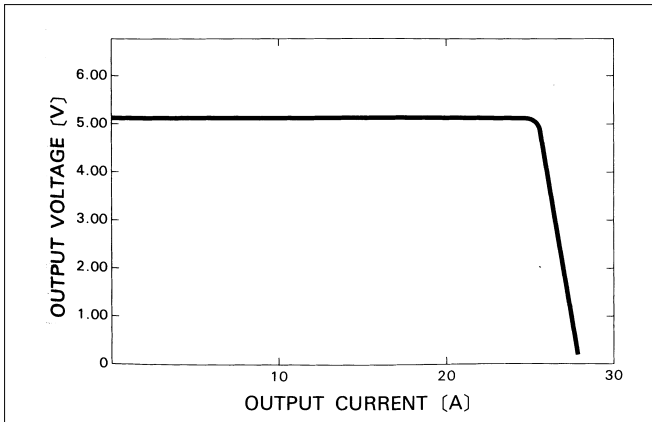
■ STATIC CHARACTERISTICS (LDA100W-5)



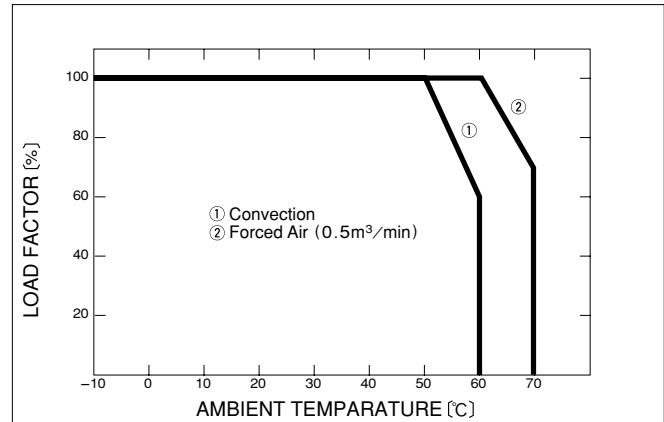
■ RISE TIME & FALL TIME (LDA100W-5)



■ OVERCURRENT CHARACTERISTICS (LDA100W-5)



■ DERATING CURVE



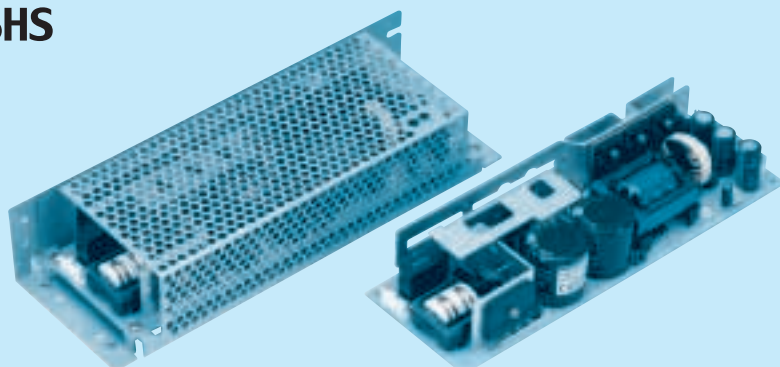
COSEL AC-DC Power Supplies Open Frame/Enclosed type

**LDA150W**

Ordering information

**LDA 150 W -5 -□**

① ② ③ ④ ⑤

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 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								
	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		36max		48max		60max		72max		96max								
	LOAD REGULATION[mV]	40max		40max		100max		100max		120max		150max								
	RIPPLE[mVp-p]	0 to +50°C	80max		80max		120max		120max		120max		220max							
		-10 - 0°C	140max		140max		160max		160max		160max		260max							
	RIPPLE NOISE[mVp-p]	0 to +50°C	120max		120max		150max		150max		150max		250max							
		-10 - 0°C	160max		160max		180max		180max		180max		280max							
	TEMPERATURE REGULATION[mV]	60max		60max		120max		150max		180max		200max								
	DRIFT[mV]	*2 20max		20max		36max		48max		60max		72max								
	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°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 <sup>2</sup> (2G), 3minutes period, 60minutes each along X, Y and Z axis																		
	IMPACT	196.1m/s <sup>2</sup> (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°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.

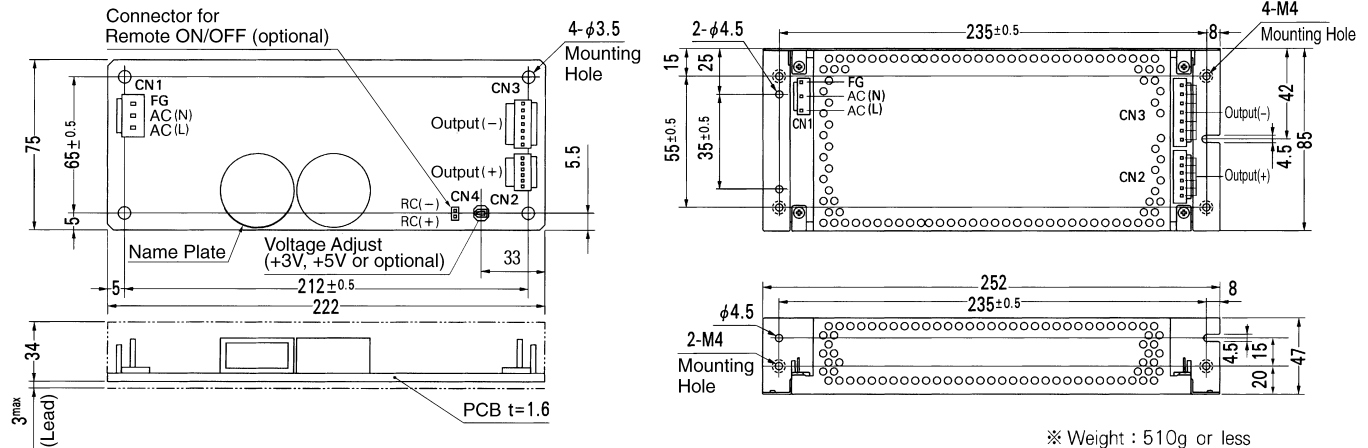
\* Avoid prolonged use under over-load.

\* 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
CN2	B6P-VH	VHR-6N
CN3	B7P-VH	VHR-7N
CN4	B2B-XH-A	XHP-2

<PIN CONNECTION>

Pin No.	Input	Pin No.	Output	Pin No.	Remote ON/OFF		
1	AC(L)	CN2	1~6	+V	CN4	1	RC(+)
2		CN3	1~7	-V	CN4	2	RC(-)
3	AC(N)						
4							
5	FG						

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

(Mfr : J.S.T.)

※ Weight : 510g or less

(Without chassis and cover)

※ Tolerance : ± 1

※ Dimensions in mm.

※ PCB Material : Glass composite

(CEM3)

※ Chassis and cover is optional.

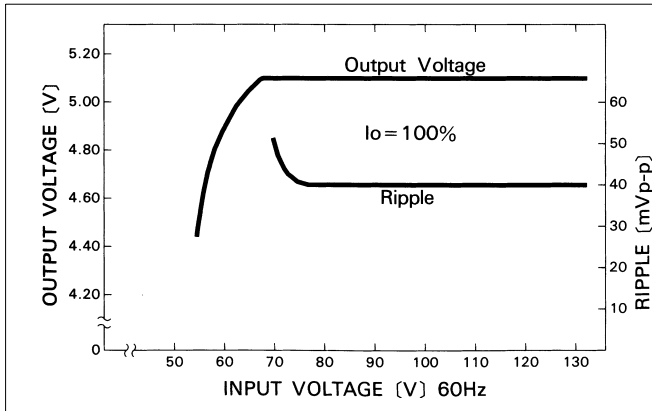
※ Chassis and cover is not available

to remote ON/OFF unit.

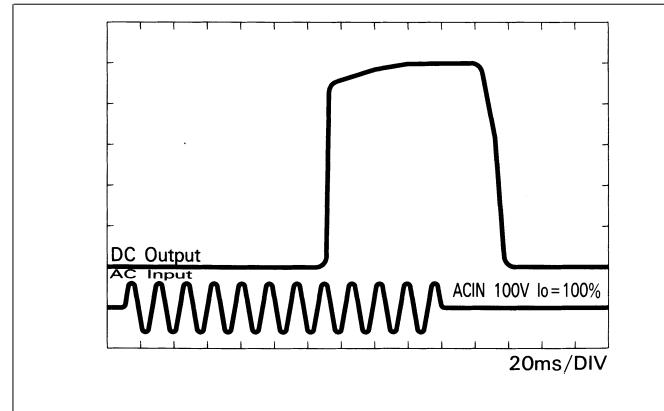
※ Mounting torque : 1.5 N·m (16 kgf·cm) max

Performance data

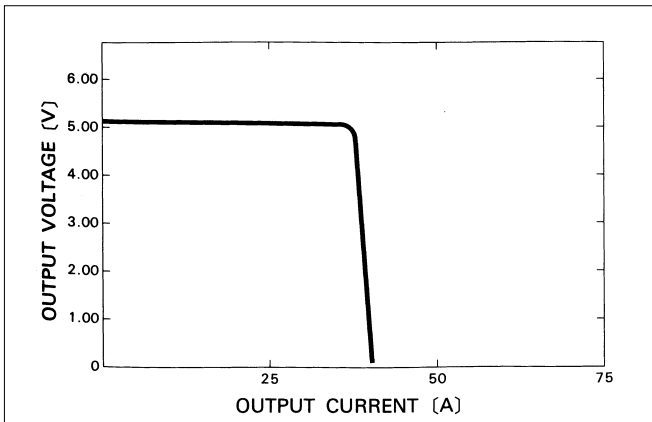
■ STATIC CHARACTERISTICS (LDA150W-5)



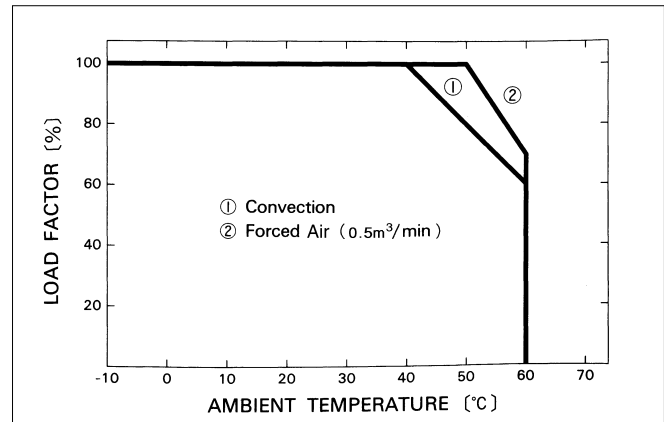
■ RISE TIME & FALL TIME (LDA150W-5)



■ OVERCURRENT CHARACTERISTICS (LDA150W-5)



■ DERATING CURVE





COSEL AC-DC Power Supplies Open Frame/Enclosed type

## LDA300W

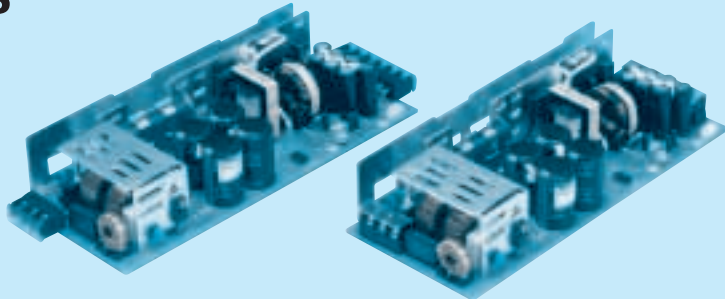
Ordering information

LDA 300 W -5 -□

① ② ③ ④ ⑤



RoHS

Recommended EMI/EMC Filter  
NAC-16-472High 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 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)									
LEAKAGE CURRENT[ma]	0.75max (60Hz, According to UL, CSA, VDE and DEN-AN)										
OUTPUT	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									
	LOAD REGULATION[mV]	40max									
	RIPPLE[mVp-p]	0 to +50°C *2	80max	80max	120max	120max	120max	120max	120max	120max	150max
		-10 - 0°C *2	140max	140max	160max	160max	160max	160max	160max	160max	200max
	RIPPLE NOISE[mVp-p]	0 to +50°C *2	120max	120max	150max	150max	150max	150max	150max	150max	400max
		-10 - 0°C *2	160max	160max	180max	180max	180max	180max	180max	180max	600max
	TEMPERATURE REGULATION[mV]	60max									
	DRIFT[mV]	*3 20max									
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°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 <sup>2</sup> (2G), 3minutes period, 60minutes each along X, Y and Z axis									
	IMPACT	196.1m/s <sup>2</sup> (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 x 50 x 255mm (W x H x 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.

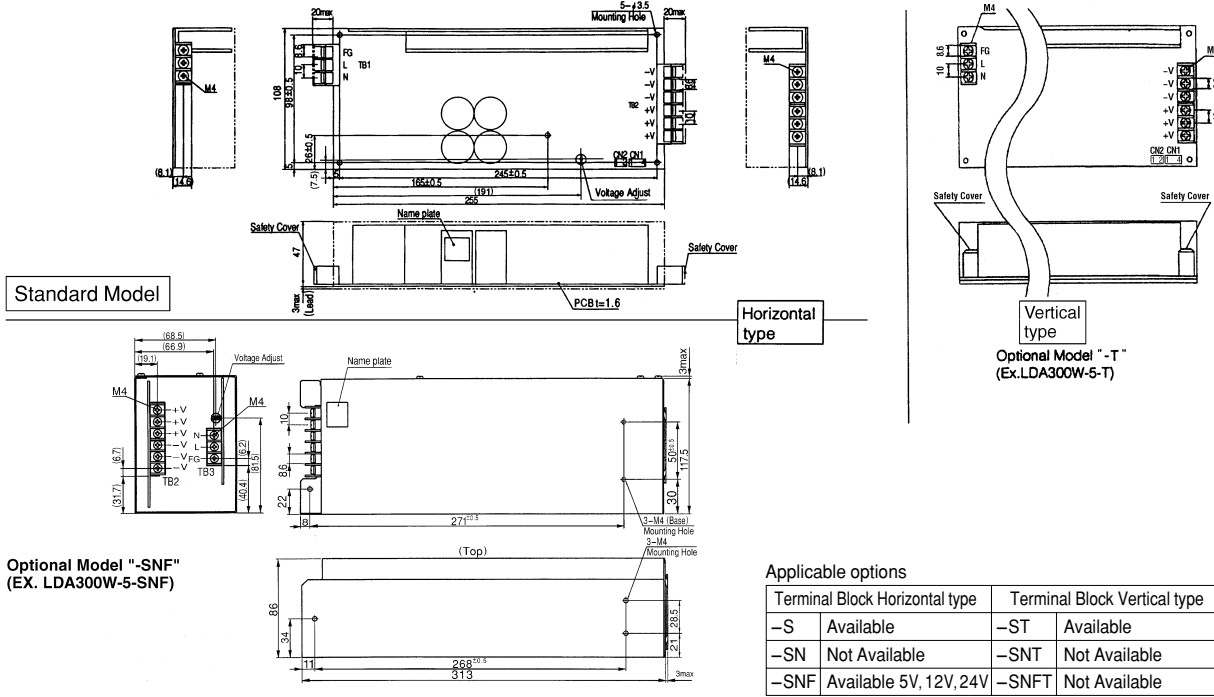
\*3 Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25°C, with the input voltage held constant at the rated input/output.

\*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



Standard Model

Horizontal type

Vertical type

Optional Model "-T"  
(Ex. LDA300W-5-T)

Optional Model "-SNF"  
(EX. LDA300W-5-SNF)

CN1 (Connector for Sensing)  
Type: B4B-XH-A

Pin No.	Function
1	-M
2	-S (Remote Sensing)
3	+S (Remote Sensing)
4	+M

Mating Housing & Pin  
Mfr: J. S. T.  
XHP-4(BXH-001T-P0.6 or SXH-001T-P0.6)

CN2 (Optional connector for Remote ON/OFF: optional)  
Type: B2B-XH-A

Pin No.	Function
1	RC (+)
2	RC (-)

Mating Housing & Pin  
Mfr: J. S. T.  
XHP-2(BXH-001T-P0.6 or SXH-001T-P0.6)

Applicable options

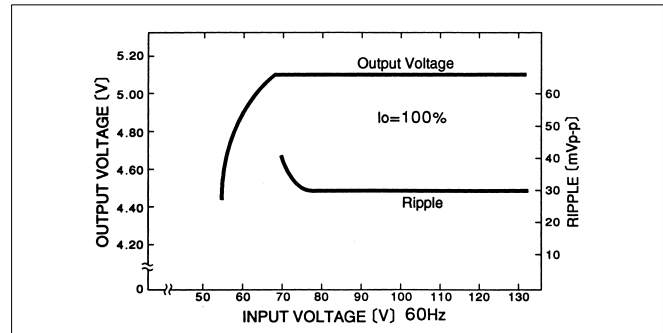
Terminal Block Horizontal type		Terminal Block Vertical type	
-S	Available	-ST	Available
-SN	Not Available	-SNT	Not Available
-SNF	Available 5V, 12V, 24V	-SNFT	Not Available

- ※ Weight : 1kg or less (without casecover)
- ※ Tolerance : ±1
- ※ Dimensions in mm.
- ※ PCB Material : Glass composite (CEM3)
- ※ Keep drawing current per pin below 20A for TB2
- ※ Mounting torque : 1.5N·m (16kgf·cm) max

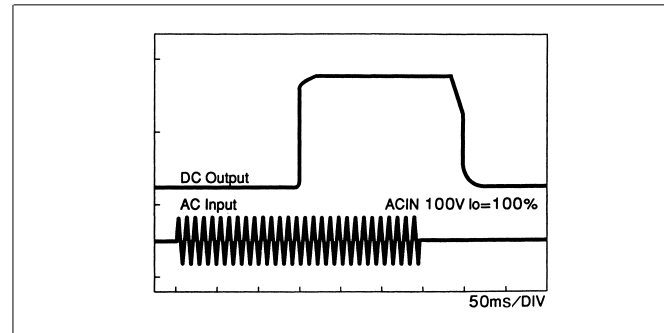
LDA

Performance data

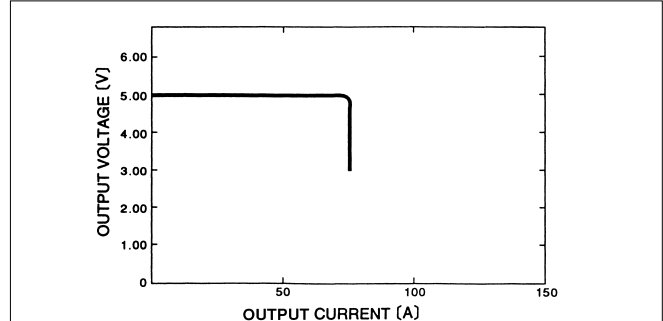
■ STATIC CHARACTERISTICS (LDA300W-5)



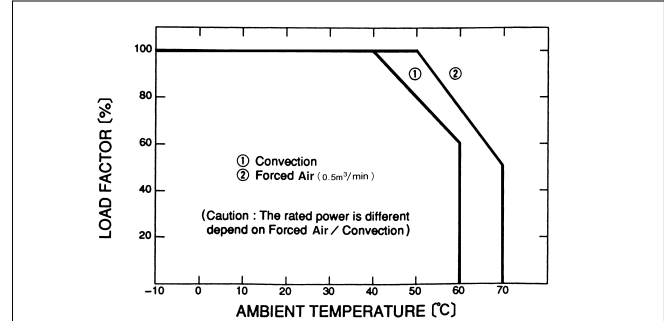
■ RISE TIME & FALL TIME (LDA300W-5)



■ OVERCURRENT CHARACTERISTICS (LDA300W-5)



■ DERATING CURVE



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