

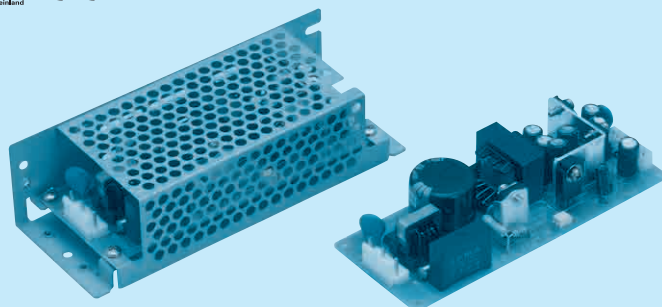
LDC15F

LD C 15 F -1 -□

① ② ③ ④ ⑤ ⑥



RoHS



- ① Series name
- ② Multiple output
- ③ Output wattage
- ④ Universal input
- ⑤ Output voltage combination
- ⑥ Optional *4
C :with Coating
G :Low leakage current
S :with Chassis
SN:with Chassis & cover
Y :with Potentiometer

LDC

MODEL	LDC15F-1	LDC15F-2
DC OUTPUT	V1 +5V 2.0(Peak 3.0)A V2 +12V 0.3(Peak 0.6)A V3 -12V 0.2(Peak 0.3)A	+5V 2.0(Peak 3.0)A +15V 0.3(Peak 0.6)A -15V 0.2(Peak 0.3)A

SPECIFICATIONS

	MODEL		LDC15F-1			LDC15F-2		
INPUT	VOLTAGE[V]		AC85 - 264 1ϕ or DC110 - 370					
	CURRENT[A]	ACIN 100V	0.4typ (Io=100%)					
	FREQUENCY[Hz]		47 - 440 or DC					
	EFFICIENCY[%]	ACIN 100V	70typ (Io=100%)					
	INRUSH CURRENT[A]	ACIN 100V	25typ (Io=100%)					
		ACIN 200V	50typ (Io=100%)					
	LEAKAGE CURRENT[ma]		0.75max (60Hz, According to UL, CSA, VDE and DEN-AN)					
OUTPUT	VOLTAGE[V]		+5	+12	-12	+5	+15	-15
	CURRENT[A]		*1 0 - 2.0 (Peak 3.0)	0 - 0.3 (Peak 0.6)	0 - 0.2 (Peak 0.3)	0 - 2.0 (Peak 3.0)	0 - 0.3 (Peak 0.6)	0 - 0.2 (Peak 0.3)
	LINE REGULATION[mV]		20max	48max	48max	20max	60max	60max
	LOAD REGULATION[mV]		100max	120max	120max	100max	150max	150max
	RIPPLE[mVp-p]	0 to +50℃ *2	100max	120max	120max	100max	120max	120max
		-10 - 0℃ *2	140max	160max	160max	140max	160max	160max
	RIPPLE NOISE[mVp-p]	0 to +50℃ *2	120max	150max	150max	120max	150max	150max
		-10 - 0℃ *2	160max	180max	180max	160max	180max	180max
	TEMPERATURE REGULATION[mV]	0 to +50℃	50max	350max	350max	50max	350max	350max
		-10 to +50℃	60max	420max	420max	60max	420max	420max
	DRIFT[mV]		*3 20max	——	——	20max	——	——
	START-UP TIME[ms]		100max (ACIN 85V, 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]		Fixed	Fixed	Fixed	Fixed	Fixed	Fixed	
OUTPUT VOLTAGE SETTING[V]		4.9 to 5.3	11.4 to 12.6	-11.4 to -12.6	4.9 to 5.3	14.25 to 15.75	-14.25 to -15.75	
PROTECTION CIRCUIT AND OTHERS	OVERCURRENT PROTECTION		Works over 105% of rating and recovers automatically					
	OVERVOLTAGE PROTECTION		Works over 115% of rating by zener diode clamping (+5V only)					
	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)					
	OUTPUT-OUTPUT(V1-V2,V3)		AC100V 1minute, Cutoff current = 100mA, DC100V 10MΩ 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)					
	STORAGE TEMP.,HUMID.AND ALTITUDE		-20 to +75℃, 20 - 90%RH (Non condensing), 9,000m (30,000feet)					
	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 x 26 x 127mm [1.97 X 1.02 X 5 inches] (W x H x D) /150g max (with chassis & cover : 300g max)					
	COOLING METHOD		Convection					

*1 Peak load for 10sec. or less is acceptable if the total wattage is less than the rated wattage(-1: 16W, -2: 17.5W).When the load of +5V is OA, other output can be drawn by 80% of rated current.

*2 Measured by 20MHz oscilloscope or Ripple-Noise meter (equivalent to KEISOKU-GIKEN:RM101).

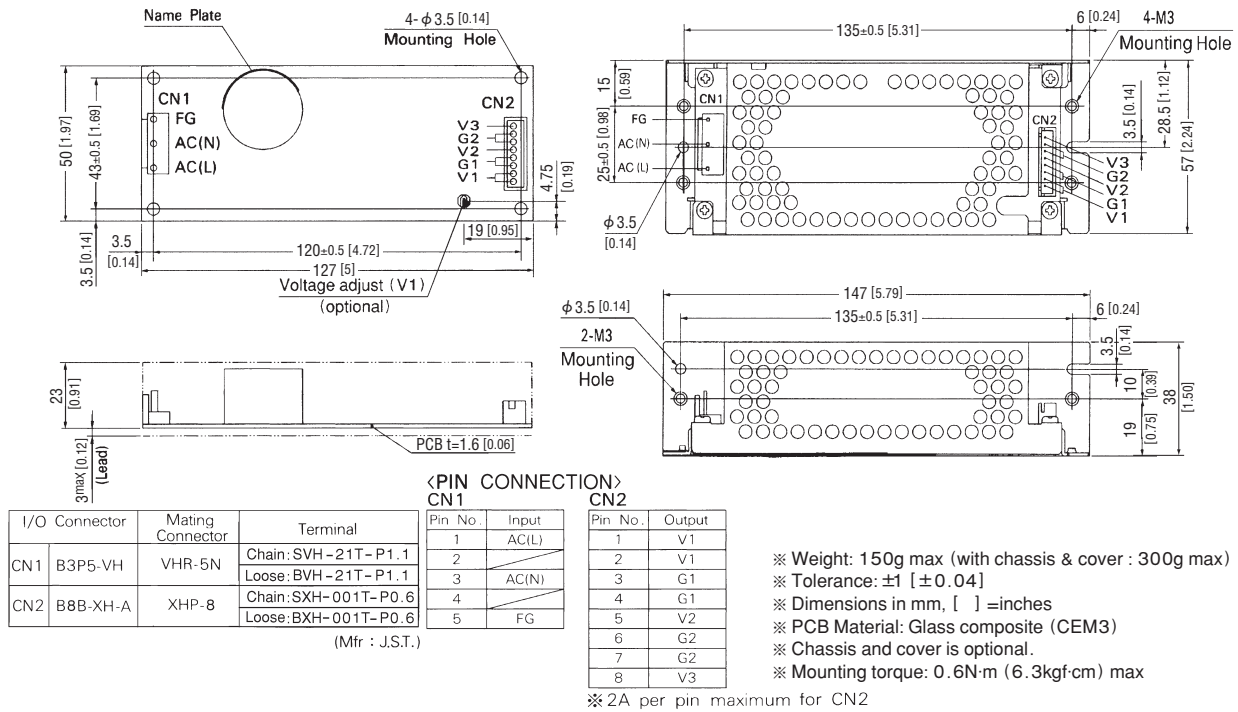
*3 Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25°C with the input voltage held constant at the rated input/output.

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

* Avoid prolonged use under over-load.

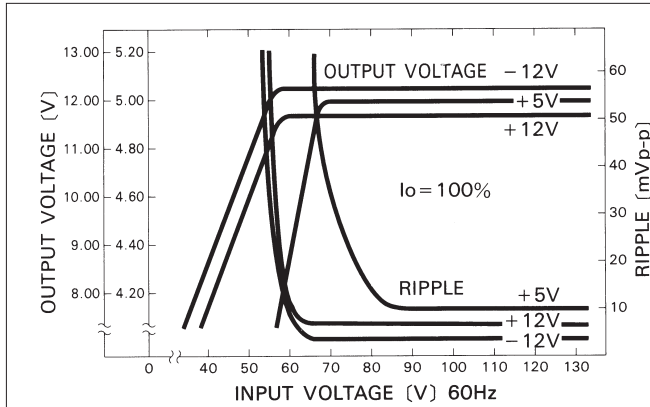
* Derating is required when operated with chassis and cover.

External view

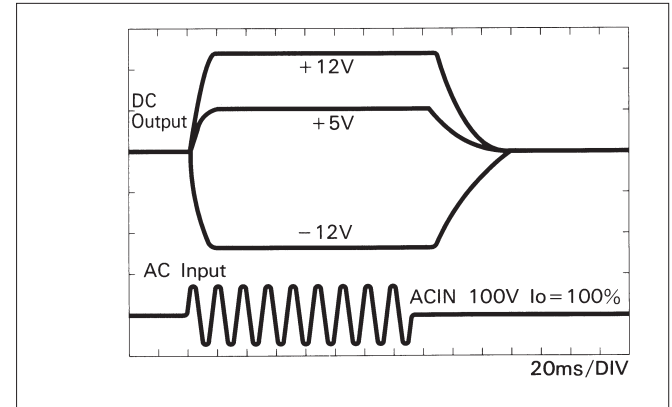


Performance data

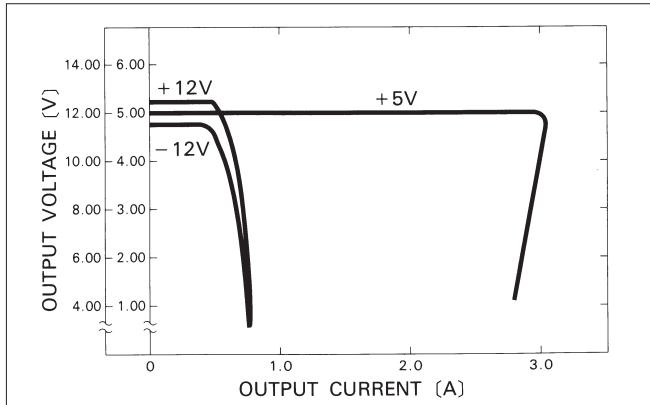
■ STATIC CHARACTERISTICS (LDC15F-1)



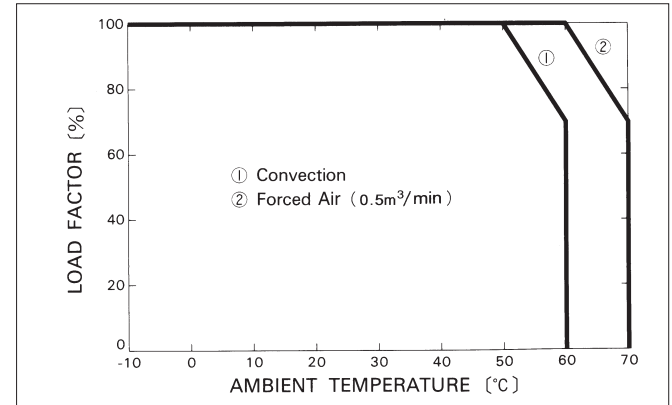
■ RISE TIME & FALL TIME (LDC15F-1)



■ OVERCURRENT CHARACTERISTICS (LDC15F-1)



■ DERATING CURVE



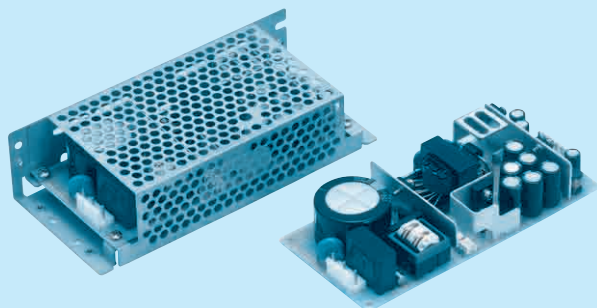
LDC30F

LD C 30 F -1 -□

① ② ③ ④ ⑤ ⑥



RoHS



- ① Series name
- ② Multiple output
- ③ Output wattage
- ④ Universal input
- ⑤ Output voltage combination
- ⑥ Optional *4
C :with Coating
G :Low leakage current
S :with Chassis
SN:with Chassis & cover
Y :with Potentiometer

LDC

MODEL	LDC30F-1	LDC30F-2
DC OUTPUT	V1 +5V 3.0(Peak 4.5)A V2 +12V 1.2(Peak 2.0)A V3 -12V 0.3(Peak 0.45)A	+5V 3.0(Peak 4.5)A +15V 1.0(Peak 2.0)A -15V 0.3(Peak 0.45)A

SPECIFICATIONS

	MODEL	LDC30F-1			LDC30F-2			
INPUT	VOLTAGE[V]		AC85 - 264 1ϕ or DC110 - 370					
	CURRENT[A]	ACIN 100V	0.8typ (Io=100%)					
	FREQUENCY[Hz]		47 - 440 or DC					
	EFFICIENCY[%]	ACIN 100V	72typ (Io=100%)					
	INRUSH CURRENT[A]	ACIN 100V	25typ (Io=100%) (At cold start)					
		ACIN 200V	50typ (Io=100%) (At cold start)					
	LEAKAGE CURRENT[mA]		0.75max (60Hz, According to UL, CSA, VDE and DEN-AN)					
OUTPUT	VOLTAGE[V]		+5	+12	-12	+5	+15	-15
	CURRENT[A]		*1 0 - 3.0 (Peak 4.5)	0 - 1.2 (Peak 2.0)	0 - 0.3 (Peak 0.45)	0 - 3.0 (Peak 4.5)	0 - 1.0 (Peak 2.0)	0 - 0.3 (Peak 0.45)
	LINE REGULATION[mV]		20max	48max	48max	20max	60max	60max
	LOAD REGULATION[mV]		100max	120max	150max	100max	120max	150max
	RIPPLE[mVp-p]	0 to +50℃ *2	100max	120max	120max	100max	120max	120max
		-10 - 0℃ *2	150max	160max	160max	150max	160max	160max
	RIPPLE NOISE[mVp-p]	0 to +50℃ *2	120max	150max	150max	120max	150max	150max
		-10 - 0℃ *2	170max	180max	180max	170max	180max	180max
	TEMPERATURE REGULATION[mV]	0 to +50℃	50max	350max	350max	50max	350max	350max
		-10 to +50℃	60max	420max	420max	60max	420max	420max
	DRIFT[mV]		*3 20max	——	——	20max	——	——
	START-UP TIME[ms]		100max (ACIN 85V, 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]		Fixed	Fixed	Fixed	Fixed	Fixed	Fixed
OUTPUT VOLTAGE SETTING[V]		4.9 to 5.3	11.4 to 12.6	-11.4 to -12.6	4.9 to 5.3	14.25 to 15.75	-14.25 to -15.75	
PROTECTION CIRCUIT AND OTHERS	OVERCURRENT PROTECTION		Works over 105% of rating and recovers automatically					
	OVERVOLTAGE PROTECTION		Works at 115 - 140% of rating (+5V only)					
	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)					
	OUTPUT-OUTPUT(V1-V2,V3)		AC100V 1minute, Cutoff current = 100mA, DC100V 10MΩ 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)					
	STORAGE TEMP.,HUMID.AND ALTITUDE		-20 to +75℃, 20 - 90%RH (Non condensing), 9,000m (30,000feet)					
	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		65 x 26 x 140mm [2.56 x 1.02 x 5.51 inches] (W x H x D) / 220g max (with chassis & cover : 400g max)					
	COOLING METHOD		Convection					

*1 Peak load for 10sec. or less is acceptable if the total wattage is less than the rated wattage(-1: 33W, -2: 34.5W).When the load of +5V is OA, other output can be drawn by 80% of rated current.

*2 Measured by 20MHz oscilloscope or Ripple-Noise meter (equivalent to KEISOKU-GIKEN:RM101).

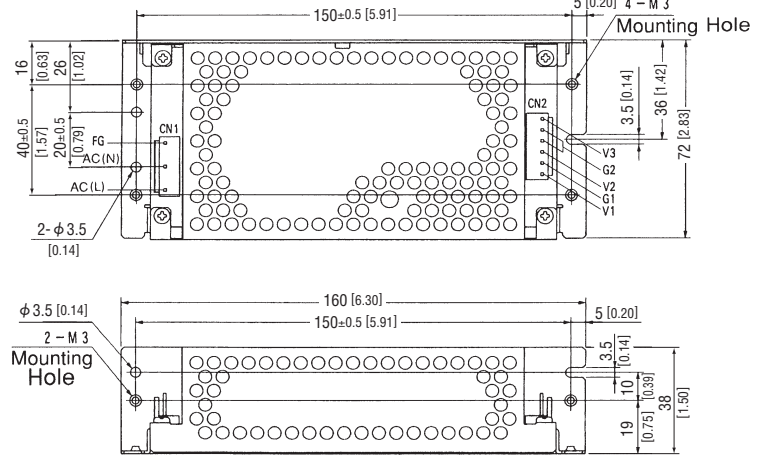
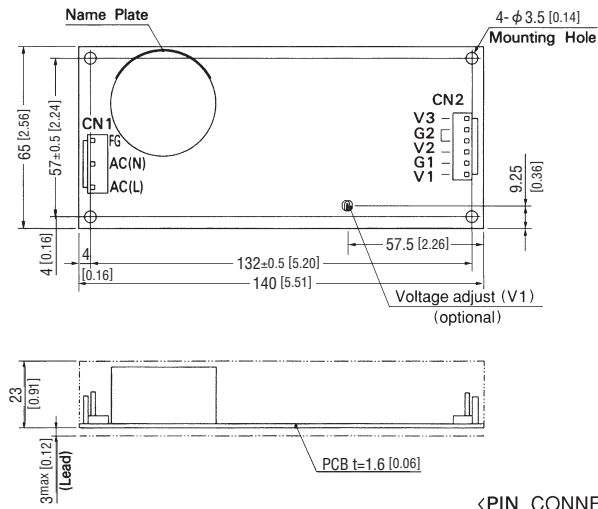
*3 Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25°C with the input voltage held constant at the rated input/output.

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

* Avoid prolonged use under over-load.

* Derating is required when operated with chassis and cover.

External view



LDC

<PIN CONNECTION>

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

Pin No.	Output
1	V3
2	G2
3	G2
4	V2
5	G1
6	V1

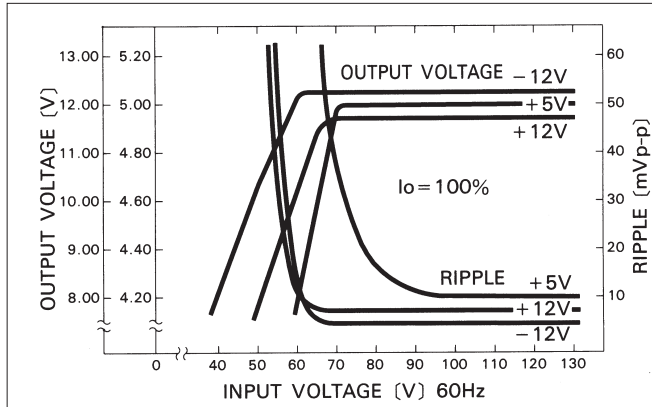
I/O Connector	Mating Connector	Terminal
CN1	B3P5-VH	VHR-5N
CN2	B6P-VH	VHR-6N

Chain: SVH-21T-P1.1
Chain: SVH-21T-P1.1
Chain: SVH-21T-P1.1
Chain: SVH-21T-P1.1
(Mfr : J.S.T.)

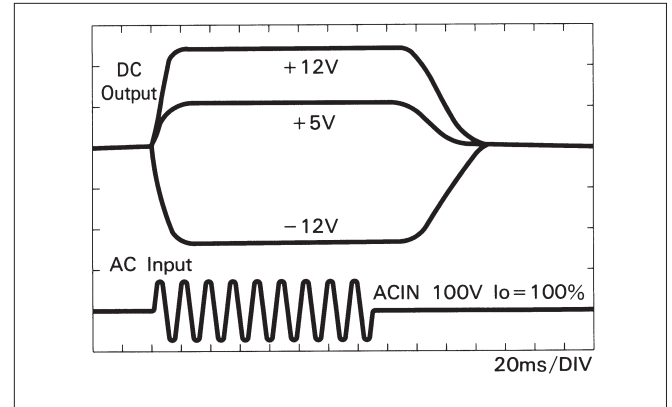
- ※ Weight: 220g max (with chassis & cover : 400g max)
- ※ Tolerance: ±1 [±0.04]
- ※ Dimensions in mm, [] = inches
- ※ PCB Material: Glass composite (CEM3)
- ※ Chassis and cover is optional.
- ※ Mounting torque: 0.6N-m (6.3kgf-cm) max

Performance data

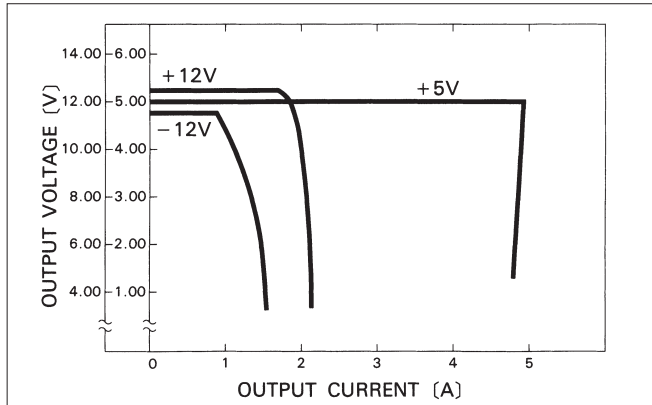
■STATIC CHARACTERISTICS (LDC30F-1)



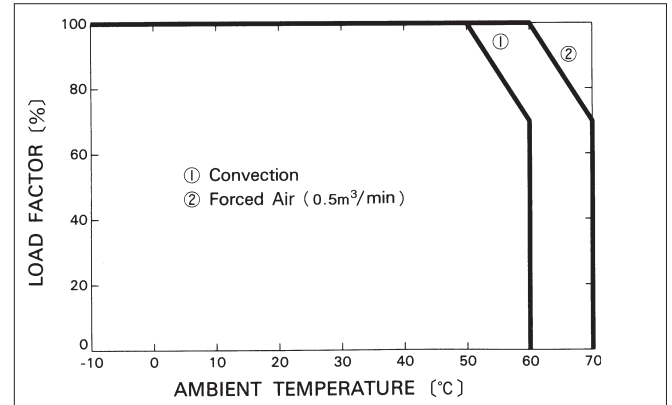
■RISE TIME & FALL TIME (LDC30F-1)



■OVERCURRENT CHARACTERISTICS (LDC30F-1)



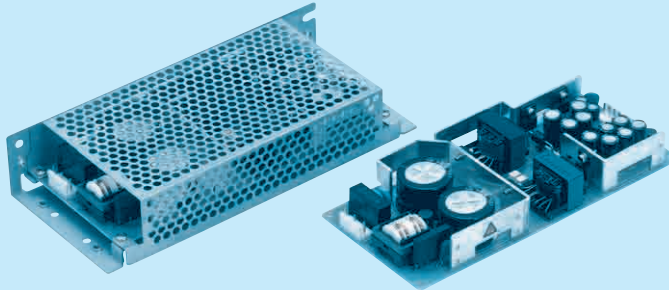
■DERATING CURVE



LDC60F

LD C 60 F -1 -□

① ② ③ ④ ⑤ ⑥



- ① Series name
- ② Multiple output
- ③ Output wattage
- ④ Universal input
- ⑤ Output voltage combination
- ⑥ Optional *4
C :with Coating
G :Low leakage current
S :with Chassis
SN:with Chassis & cover
Y :with Potentiometer

LDC

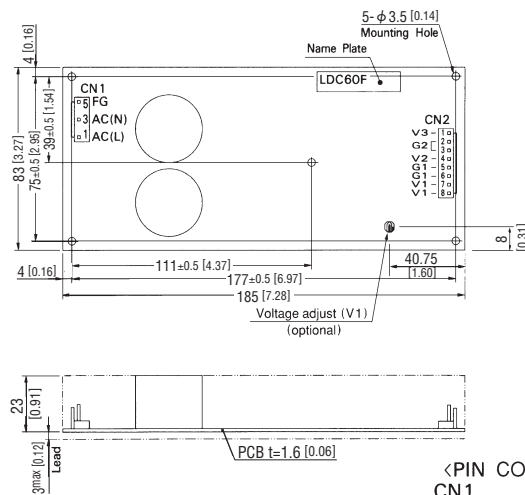
MODEL	LDC60F-1	LDC60F-2
DC OUTPUT	V1 +5V 5.0(Peak 7.0)A V2 +12V 2.5(Peak 3.5)A V3 -12V 0.5(Peak 0.7)A	+5V 5.0(Peak 7.0)A +15V 2.0(Peak 3.5)A -15V 0.5(Peak 0.7)A

SPECIFICATIONS

	MODEL		LDC60F-1			LDC60F-2			
INPUT	VOLTAGE[V]		AC85 - 264 1ϕ or DC110 - 370						
	CURRENT[A]	ACIN 100V	1.4typ (Io=100%)						
	FREQUENCY[Hz]		47 - 440 or DC						
	EFFICIENCY[%]	ACIN 100V	72typ (Io=100%)						
	INRUSH CURRENT[A]		ACIN 100V 30typ (Io=100%) (At cold start)						
			ACIN 200V 60typ (Io=100%) (At cold start)						
	LEAKAGE CURRENT[ma]		0.75max (60Hz, According to UL, CSA, VDE and DEN-AN)						
OUTPUT	VOLTAGE[V]		+5	+12	-12	+5	+15	-15	
	CURRENT[A]	*1	0 - 5.0 (Peak 7.0)	0 - 2.5 (Peak 3.5)	0 - 0.5 (Peak 0.7)	0 - 5.0 (Peak 7.0)	0 - 2.0 (Peak 3.5)	0 - 0.5 (Peak 0.7)	
	LINE REGULATION[mV]		20max	48max	48max	20max	60max	60max	
	LOAD REGULATION[mV]		100max	150max	150max	100max	150max	150max	
	RIPPLE[mVp-p]		0 to +50°C *2	100max	120max	120max	100max	120max	120max
			-10 - 0°C *2	150max	160max	160max	150max	160max	160max
	RIPPLE NOISE[mVp-p]		0 to +50°C *2	120max	150max	150max	120max	150max	150max
			-10 - 0°C *2	170max	180max	180max	170max	180max	180max
	TEMPERATURE REGULATION[mV]		0 to +50°C	50max	350max	350max	50max	350max	350max
			-10 to +50°C	60max	420max	420max	60max	420max	420max
	DRIFT[mV]		*3	20max	—	—	20max	—	—
	START-UP TIME[ms]		200max (ACIN 85V, 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]		Fixed	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed
OUTPUT VOLTAGE SETTING[V]		4.9 to 5.3	11.4 to 12.6	-11.4 to -12.6	4.9 to 5.3	14.25 to 15.75	-14.25 to -15.75		
PROTECTION CIRCUIT AND OTHERS	OVERCURRENT PROTECTION		Works over 105% of rating and recovers automatically						
	OVERVOLTAGE PROTECTION		Works over 115% of rating by zener diode clamping (only available with V1, V2)						
	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)						
	OUTPUT-OUTPUT(V1-V2,V3)		AC100V 1minute, Cutoff current = 100mA, DC100V 10MΩ 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)						
	STORAGE TEMP.,HUMID.AND ALTITUDE		-20 to +75°C, 20 - 90%RH (Non condensing), 9,000m (30,000feet)						
	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		83 x 26 x 185mm [3.27 x 1.02 x 7.28 inches] (W x H x D) / 300g max (with chassis & cover : 550g max)						
	COOLING METHOD		Convection						

- *1 Peak load for 10sec. or less is acceptable if the total wattage is less than the rated wattage(-1: 61W, -2: 62.5W).When the load of +5V is OA, other output can be drawn by 80% of rated current.
- *2 Measured by 20MHz oscilloscope or Ripple-Noise meter (equivalent to KEISOKU-GIKEN:RM101).
- *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.
- * Avoid prolonged use under over-load.
- * 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	B8P-VH	VHR-8N	Chain: SVH-21T-P1.1
			Loose: BVH-21T-P1.1

(Mfr : J.S.T.)

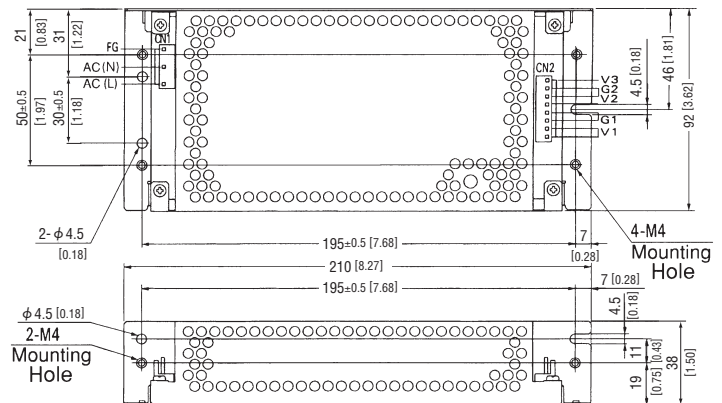
<PIN CONNECTION>

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

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

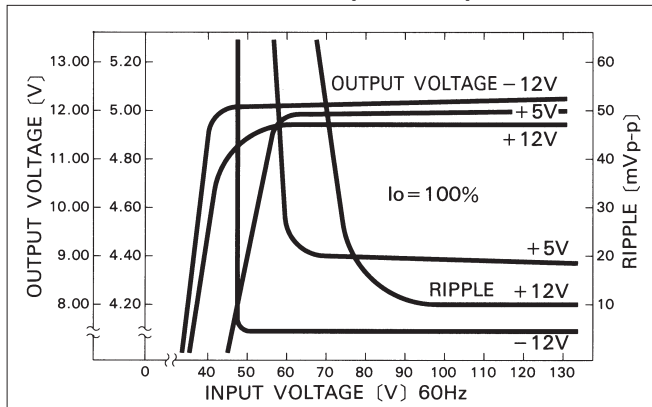
Pin No.	Output
1	V3
2	G2
3	G2
4	V2
5	G1
6	G1
7	V1
8	V1

- ※ Weight: 300g max (with chassis & cover : 550g max)
- ※ Tolerance: ± 1 [± 0.04]
- ※ Dimensions in mm, [] = inches
- ※ PCB Material: Glass composite (CEM3)
- ※ Chassis and cover is optional.
- ※ Mounting torque: 1.5N·m (16kgf·cm) max

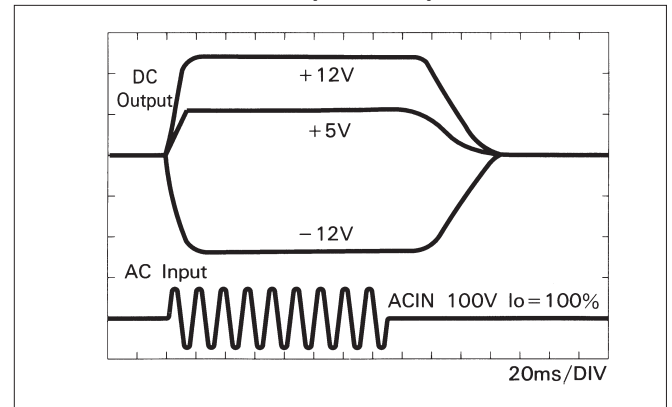


Performance data

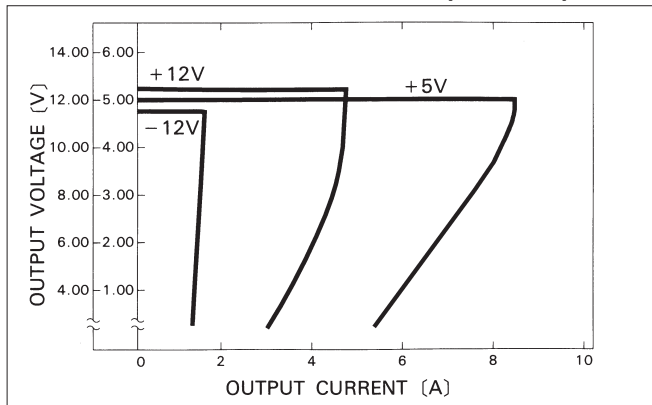
■STATIC CHARACTERISTICS (LDC60F-1)



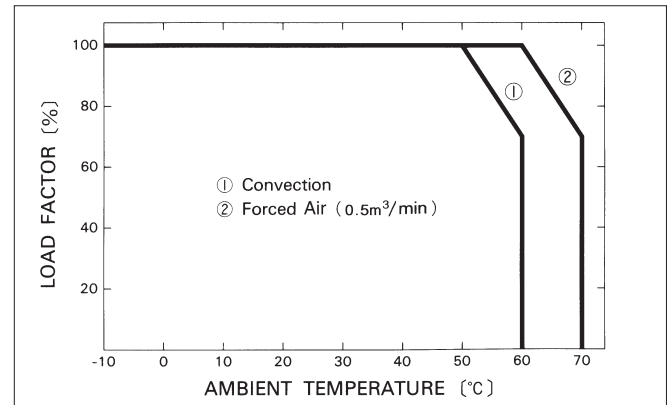
■RISE TIME & FALL TIME (LDC60F-1)



OVERCURRENT CHARACTERISTICS (LDC60F-1)



■ DERATING CURVE



Mouser Electronics

Authorized Distributor

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Cosel:

[LDC60F-1-S](#) [S-LDC30](#) [LDC15F-1-SN](#) [LDC30F-1-S](#) [LDC30F-1-C](#) [LDC15F-2-G](#) [LDC15F-2-SY](#) [LDC15F-1](#)
[LDC15F-1-Y](#) [LDC30F-1-SY](#) [LDC30F-2-SNC](#) [LDC60F-1-SNCY](#) [LDC30F-2-SNY](#) [LDC60F-2-SN](#) [N-LDC15](#) [LDC15F-1-](#)
[S](#) [LDC60F-2-G](#) [LDC30F-1-SNG](#) [LDC15F-2-SG](#) [LDC15F-2-SNY](#) [LDC30F-2-SNG](#) [LDC30F-1-SNY](#) [LDC30F-2-C](#)
[LDC60F-2-SNY](#) [LDC60F-2-CY](#) [LDC60F-1-Y](#) [LDC30F-2-SN](#) [LDC30F-1-SNCY](#) [LDC30F-2-Y](#) [LDC60F-1-Q](#) [LDC60F-1-](#)
[CY](#) [LDC15F-1-SY](#) [LDC30F-1](#) [LDC15F-1-G](#) [LDC60F-2-S](#) [LDC15F-2-C](#) [LDC60F-1-SNC](#) [LDC30F-1-SNC](#) [LDC15F-2-](#)
[SNG](#) [N-LDC60](#) [LDC60F-1-GY](#) [LDC60F-2-C](#) [LDC60F-2-SNC](#) [LDC15F-2-S](#) [LDC15F-1-SC](#) [S-LDC60](#) [LDC60F-2](#)
[LDC60F-1-SNY](#) [LDC60F-2-SNCY](#) [LDC60F-1-C](#) [LDC30F-2](#) [LDC15F-2](#) [LDC30F-2-SNCY](#) [LDC30F-2-G](#) [LDC15F-1-](#)
[SG](#) [LDC30F-2-S](#) [LDC60F-2-Y](#) [LDC15F-1-SNY](#) [LDC30F-1-GY](#) [LDC15F-2-SC](#) [S-LDC15](#) [LDC60F-1-SY](#) [LDC15F-2-Y](#)
[LDC15F-1-C](#) [LDC60F-1](#) [LDC15F-2-SN](#) [LDC30F-1-SNGY](#) [LDC60F-2-Q](#) [N-LDC30](#) [LDC30F-1-Y](#) [LDC60F-2-SY](#)
[LDC60F-1-G](#) [LDC15F-1-SNC](#) [LDC30F-2-SY](#) [LDC30F-1-G](#) [LDC60F-1-SN](#) [LDC30F-1-SN](#)



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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