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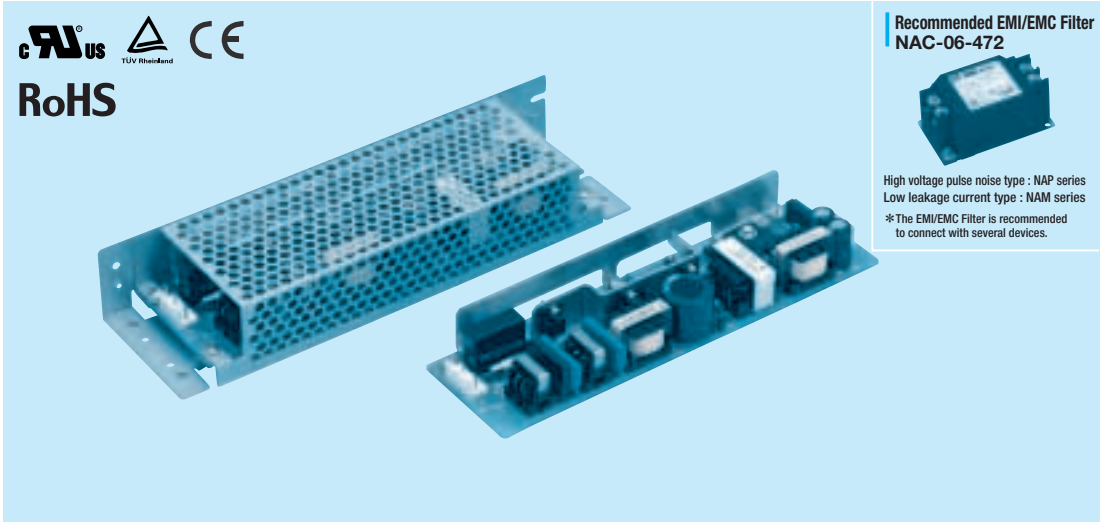
COSEL AC-DC Power Supplies Open Frame/Enclosed type

LEA50F

Ordering information

LEA 50 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.

①Series name
②Output wattage
③Universal input
④Output voltage
⑤Optional ＊6
C :with Coating
G :Low leakage current
J2:Mini terminal block
R :with Remote ON/OFF
S :with Chassis
SN:with Chassis & cover
Y :with Potentiometer

LEA

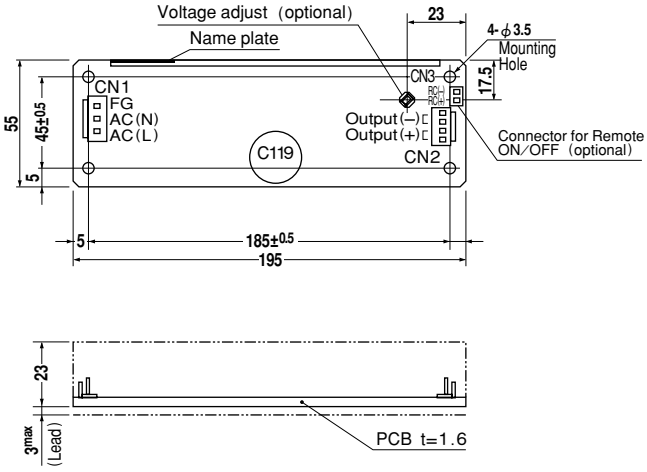
MODEL	LEA50F-3R3-Y	LEA50F-5	LEA50F-9	LEA50F-12	LEA50F-15	LEA50F-18	LEA50F-24	LEA50F-24-H	LEA50F-30	LEA50F-48
MAX OUTPUT WATTAGE[W]	33	50	50.4	51.6	52.5	50.4	50.4	50.4	51	52.8
DC OUTPUT ＊5	3.3V 10A	5V 10A	9V 5.6A	12V 4.3A	15V 3.5A	18V 2.8A	24V 2.1A	24V 2.1(2.6)A	30V 1.7A	48V 1.1A

SPECIFICATIONS

	MODEL		LEA50F-3R3-Y	LEA50F-5	LEA50F-9	LEA50F-12	LEA50F-15	LEA50F-18	LEA50F-24	LEA50F-24-H	LEA50F-30	LEA50F-48
INPUT	VOLTAGE[V]		AC85 - 264 1φ or DC120 - 370									
	CURRENT[A]	ACIN 100V	0.6	0.7typ								
		ACIN 200V	0.3	0.35typ								
	FREQUENCY[Hz]		50/60 (47 - 63) or DC									
	EFFICIENCY[%]	ACIN 100V	70typ	75typ	78typ	78typ	79typ	80typ	81typ	81typ	82typ	83typ
		ACIN 200V	71typ	77typ	80typ	80typ	81typ	82typ	83typ	83typ	84typ	85typ
	POWER FACTOR	ACIN 100V	0.98typ	0.99typ								
		ACIN 200V	0.91typ	0.93typ								
	INRUSH CURRENT[A]	ACIN 100V	15typ (Io=100%) (At cold start) (Ta=25℃)									
		ACIN 200V	30typ (Io=100%) (At cold start) (Ta=25℃)									
	LEAKAGE CURRENT[mA]		0.75max (60Hz, According to IEC62368-1 and DEN-AN)									
OUTPUT	VOLTAGE[V]		3.3	5	9	12	15	18	24	24	30	48
	CURRENT[A]	＊1	10	10	5.6	4.3	3.5	2.8	2.1	2.1 (Peak 2.6)	1.7	1.1
	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	300max
	RIPPLE[mVp-p]	0 to +50℃ ＊2	80max	80max	120max	120max	120max	120max	120max	120max	120max	150max
		-10 - 0℃ ＊2	140max	140max	160max	160max	160max	160max	160max	160max	160max	200max
	RIPPLE NOISE[mVp-p]	0 to +50℃ ＊2	120max	120max	150max	150max	150max	150max	150max	150max	150max	350max
		-10 - 0℃ ＊2	160max	160max	180max	180max	180max	180max	180max	180max	180max	400max
	TEMPERATURE REGULATION[mV]	0 to +50℃	50max	50max	90max	120max	150max	180max	240max	240max	300max	480max
		-10 to +50℃	60max	60max	120max	150max	180max	200max	290max	290max	360max	600max
	DRIFT[mV]	＊3	20max	20max	36max	48max	60max	72max	96max	96max	120max	192max
	START-UP TIME[ms]		500max (ACIN 100V, Io=100%)									
	HOLD-UP TIME[ms]		20typ (Io=100%)									
	OUTPUT VOLTAGE ADJUSTMENT RANGE[V]		2.85 - 3.6	Fixed ("Y"which can be adjusted the output is available as optional:±10%)								
	OUTPUT VOLTAGE SETTING[V]		3.25 - 3.35	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	28.5 - 31.5	46.0 - 50.0
PROTECTION CIRCUIT AND OTHERS	OVERCURRENT PROTECTION		Works over 105% of rating (works over 105% of peak current at option -H) 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 · RC	＊4	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 · RC-FG	＊4	AC500V 1minute, Cutoff current = 100mA, DC500V 50MΩ min (At Room Temperature)									
	OUTPUT-RC	＊4	AC100V 1minute, Cutoff current = 100mA, DC100V 10MΩ 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, EN62368-1 Complies with DEN-AN and IEC62368-1 (At only AC input)									
	CONDUCTED NOISE		Complies with FCC-B, CISPR22-B, EN55022-B, VCCI-B									
	HARMONIC ATTENUATOR		Complies with IEC61000-3-2									
OTHERS	CASE SIZE/WEIGHT		55×26×195mm (W×H×D) /210g 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.
＊2 This is the value that measured on measuring board with capacitor of 22μF within 150mm from output terminal.
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 Applicable when remote control (optional) is added.
＊5 ( ):peak current.
＊6 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



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

(Mfr: J.S.T.)

〈PIN CONNECTION〉

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

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

〈Optional〉

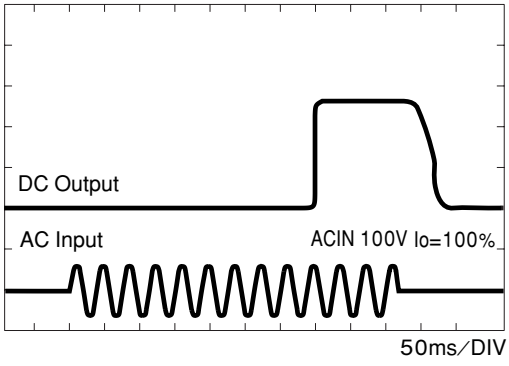
	Pin No.	Remote ON/OFF
CN3	1	RC(+)
	2	RC(−)

※Keep drawing current per pin below 5A for CN2

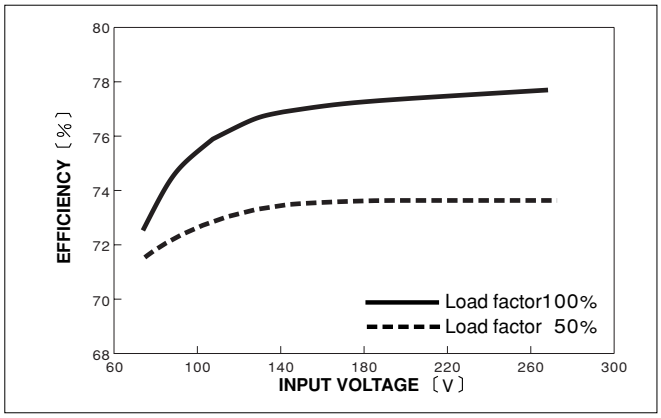
※Weight: 210g or less (Without chassis and cover)
※Tolerance: ±1
※Dimensions in mm.
※PCB Material: Glass composite (CEM3)
※Chassis and cover is optional.
※Mounting torque: 0.6N·m(6.3kgf·cm)max

Performance data

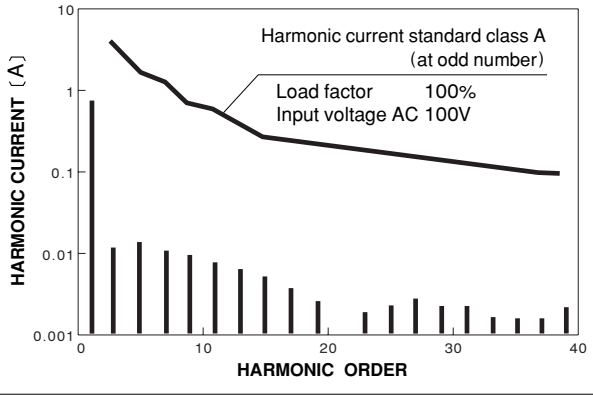
■RISE TIME & FALL TIME (LEA50F-5)



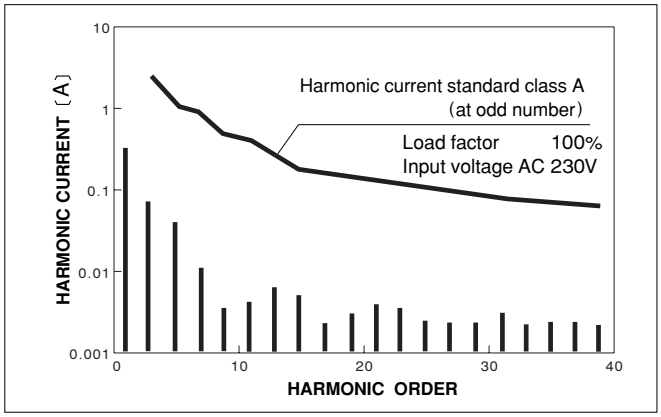
■EFFICIENCY (LEA50F-5)



■INPUT HARMONIC CURRENT (LEA50F-5)



■INPUT HARMONIC CURRENT (LEA50F-5)



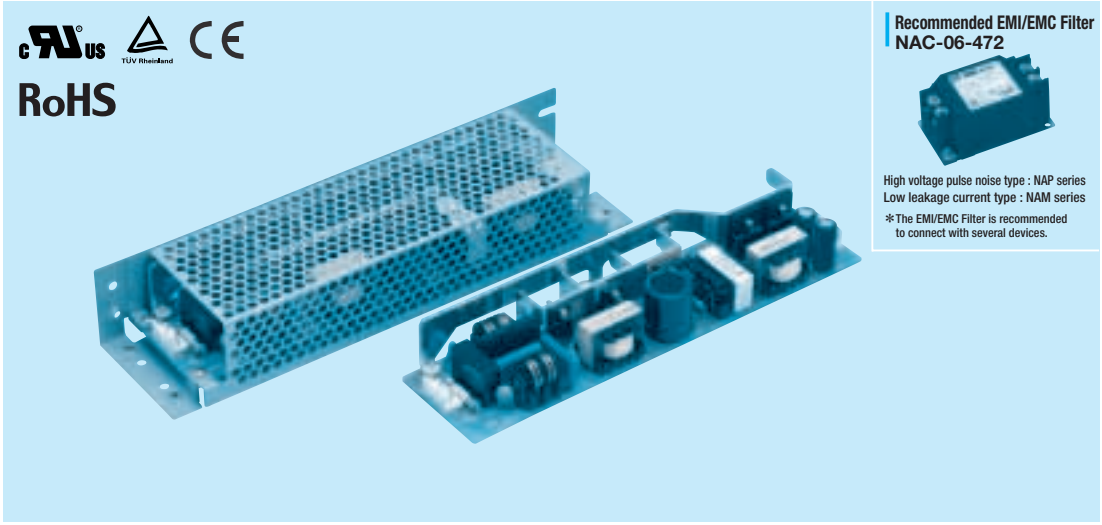
COSEL AC-DC Power Supplies Open Frame/Enclosed type

LEA75F

Ordering information

LEA 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.

①Series name
②Output wattage
③Universal input
④Output voltage
⑤Optional ＊6
C :with Coating
G :Low leakage current
J2:Mini terminal block
R :with Remote ON/OFF
S :with Chassis
SN:with Chassis & cover
Y :with Potentiometer

LEA

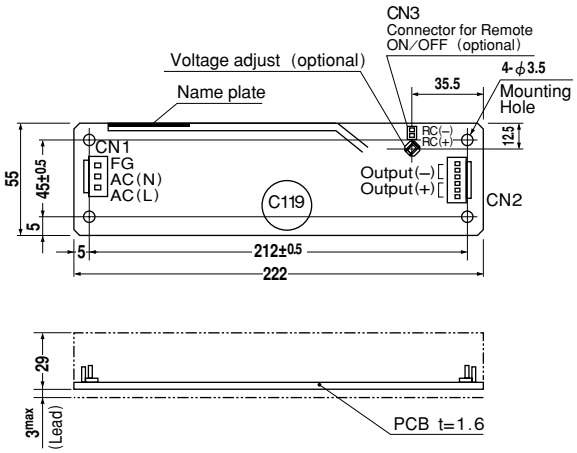
MODEL	LEA75F-3R3-Y	LEA75F-5	LEA75F-9	LEA75F-12	LEA75F-15	LEA75F-18	LEA75F-24	LEA75F-24-H	LEA75F-30	LEA75F-48
MAX OUTPUT WATTAGE[W]	49.5	75	76.5	75.6	75	75.6	76.8	76.8	75	76.8
DC OUTPUT ＊5	3.3V 15A	5V 15A	9V 8.5A	12V 6.3A	15V 5A	18V 4.2A	24V 3.2A	24V 3.2(3.8)A	30V 2.5A	48V 1.6A

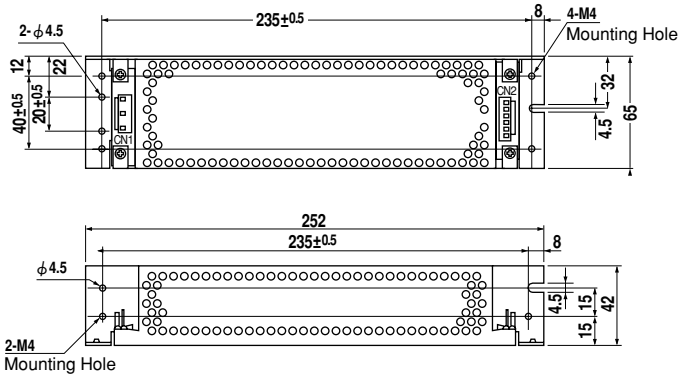
SPECIFICATIONS

	MODEL		LEA75F-3R3-Y	LEA75F-5	LEA75F-9	LEA75F-12	LEA75F-15	LEA75F-18	LEA75F-24	LEA75F-24-H	LEA75F-30	LEA75F-48
INPUT	VOLTAGE[V]		AC85 - 264 1φ or DC120 - 370									
	CURRENT[A]	ACIN 100V	0.8	1.1typ								
		ACIN 200V	0.4	0.55typ								
	FREQUENCY[Hz]		50/60 (47 - 63) or DC									
	EFFICIENCY[%]	ACIN 100V	70typ	75typ	78typ	78typ	79typ	81typ	82typ	82typ	82typ	84typ
		ACIN 200V	71typ	77typ	80typ	80typ	81typ	83typ	84typ	84typ	84typ	86typ
	POWER FACTOR	ACIN 100V	0.98typ	0.99typ								
		ACIN 200V	0.92typ	0.94typ								
	INRUSH CURRENT[A]	ACIN 100V	15typ (Io=100%) (At cold start) (Ta=25℃)									
		ACIN 200V	30typ (Io=100%) (At cold start) (Ta=25℃)									
	LEAKAGE CURRENT[mA]		0.75max (60Hz, According to IEC62368-1 and DEN-AN)									
OUTPUT	VOLTAGE[V]		3.3	5	9	12	15	18	24	24	30	48
	CURRENT[A]	＊1	15	15	8.5	6.3	5	4.2	3.2	3.2 (Peak 3.8)	2.5	1.6
	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	300max
	RIPPLE[mVp-p]	0 to +50℃ ＊2	80max	80max	120max	120max	120max	120max	120max	120max	120max	150max
		-10 - 0℃ ＊2	140max	140max	160max	160max	160max	160max	160max	160max	160max	200max
	RIPPLE NOISE[mVp-p]	0 to +50℃ ＊2	120max	120max	150max	150max	150max	150max	150max	150max	150max	350max
		-10 - 0℃ ＊2	160max	160max	180max	180max	180max	180max	180max	180max	180max	400max
	TEMPERATURE REGULATION[mV]	0 to +50℃	50max	50max	90max	120max	150max	180max	240max	240max	300max	480max
		-10 to +50℃	60max	60max	120max	150max	180max	200max	290max	290max	360max	600max
	DRIFT[mV]	＊3	20max	20max	36max	48max	60max	72max	96max	96max	120max	192max
	START-UP TIME[ms]		500max (ACIN 100V, Io=100%)									
	HOLD-UP TIME[ms]		20typ (Io=100%)									
	OUTPUT VOLTAGE ADJUSTMENT RANGE[V]		2.85 - 3.6	Fixed ("Y"which can be adjusted the output is available as optional:±10%)								
	OUTPUT VOLTAGE SETTING[V]		3.25 - 3.35	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	28.5 - 31.5	46.0 - 50.0
PROTECTION CIRCUIT AND OTHERS	OVERCURRENT PROTECTION		Works over 105% of rating (works over 105% of peak current at option -H) 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 · RC	＊4	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 · RC-FG	＊4	AC500V 1minute, Cutoff current = 100mA, DC500V 50MΩ min (At Room Temperature)									
	OUTPUT-RC	＊4	AC100V 1minute, Cutoff current = 100mA, DC100V 10MΩ 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, EN62368-1 Complies with DEN-AN and IEC62368-1 (At only AC input)									
	CONDUCTED NOISE		Complies with FCC-B, CISPR22-B, EN55022-B, VCCI-B									
	HARMONIC ATTENUATOR		Complies with IEC61000-3-2									
OTHERS	CASE SIZE/WEIGHT		55×32×222mm (W×H×D) /290g max (without chassis and cover)									
	COOLING METHOD		Convection									

＊1 Peak load for 10 sec. 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 22μF within 150mm from output terminal.
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 Applicable when remote control (optional) is added.
＊5 ( ):peak current.
＊6 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





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

(Mfr: J.S.T.)

〈PIN CONNECTION〉

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

	Pin No.	Output
CN2	1~3	−V
	4~6	+V

〈Optional〉

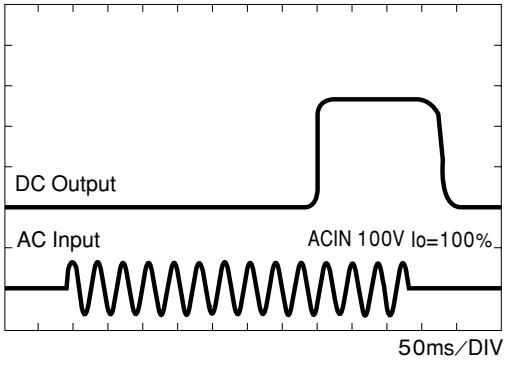
	Pin No.	Remote ON/OFF
CN3	1	RC(+)
	2	RC(−)

※Keep drawing current per pin below 5A for CN2

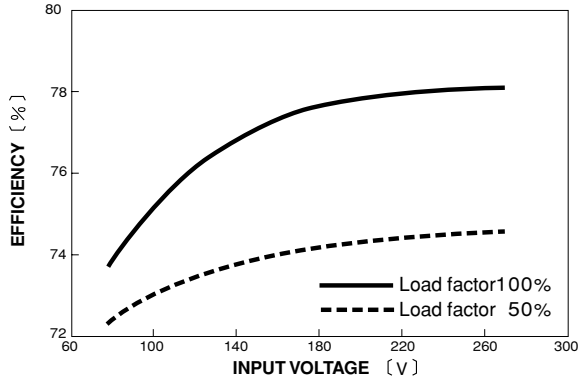
※Weight: 290g or less
(Without chassis and cover)
※Tolerance: ±1
※Dimensions in mm.
※PCB Material: Glass composite
(CEM3)
※Chassis and cover is optional.
※Chassis and cover is not available
to remote ON/OFF unit.
※Mounting torque: 1.5N·m(16kgf·cm)max

Performance data

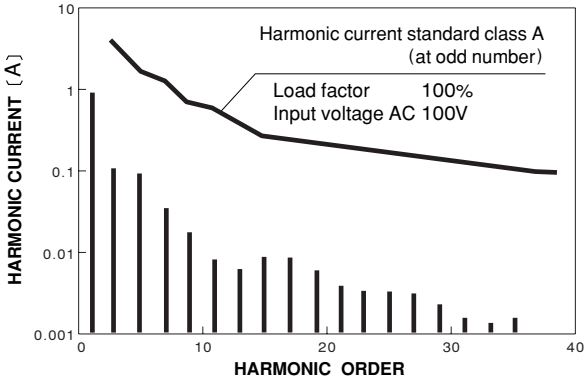
■RISE TIME & FALL TIME (LEA75F-5)



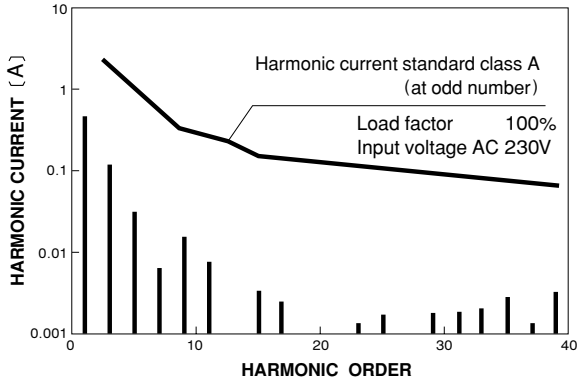
■EFFICIENCY (LEA75F-5)



■INPUT HARMONIC CURRENT (LEA75F-5)



■INPUT HARMONIC CURRENT (LEA75F-5)



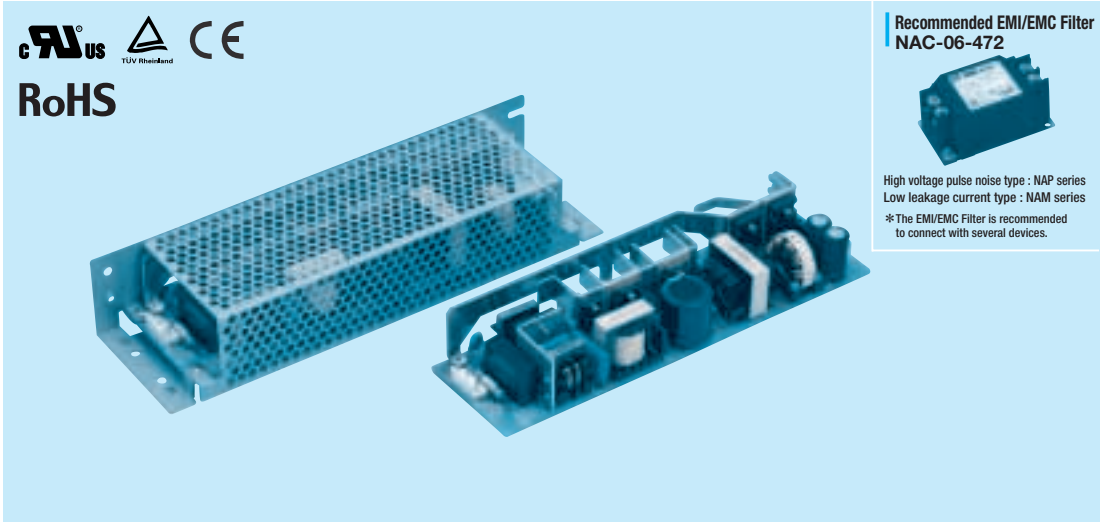
COSEL AC-DC Power Supplies Open Frame/Enclosed type

LEA100F

Ordering information

LEA 100 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.

①Series name
②Output wattage
③Universal input
④Output voltage
⑤Optional ＊6
C :with Coating
G :Low leakage current
J2:Mini terminal block
R :with Remote ON/OFF
S :with Chassis
SN:with Chassis & cover
Y :with Potentiometer

LEA

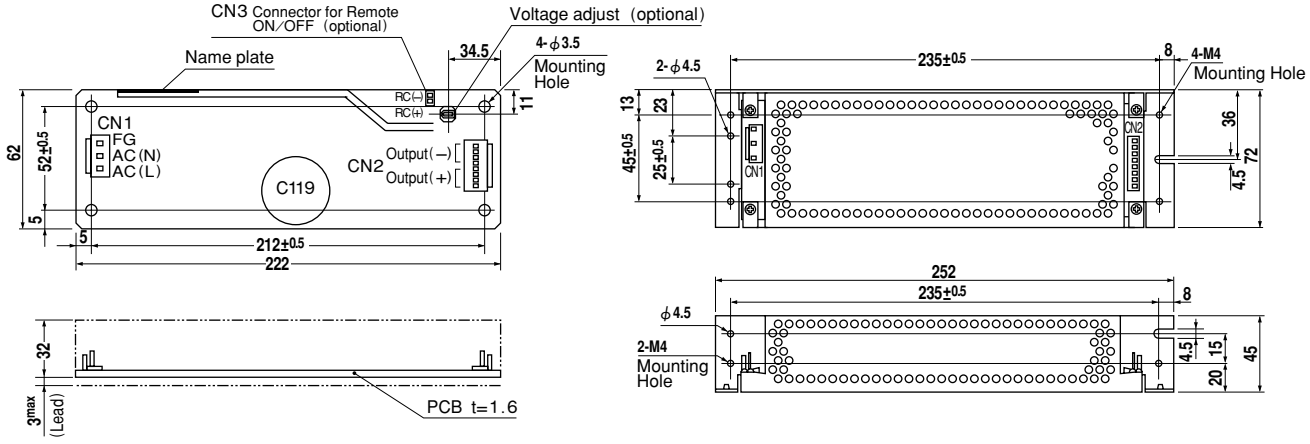
MODEL	LEA100F-3R3-Y	LEA100F-5	LEA100F-9	LEA100F-12	LEA100F-15	LEA100F-18	LEA100F-24	LEA100F-24-H	LEA100F-30	LEA100F-48
MAX OUTPUT WATTAGE[W]	66	100	103.5	102	100.5	100.8	103.2	103.2	105	105.6
DC OUTPUT ＊5	3.3V 20A	5V 20A	9V 11.5A	12V 8.5A	15V 6.7A	18V 5.6A	24V 4.3A	24V 4.3(5.0)A	30V 3.5A	48V 2.2A

SPECIFICATIONS

	MODEL		LEA100F-3R3-Y	LEA100F-5	LEA100F-9	LEA100F-12	LEA100F-15	LEA100F-18	LEA100F-24	LEA100F-24-H	LEA100F-30	LEA100F-48
INPUT	VOLTAGE[V]		AC85 - 264 1φ or DC120 - 370									
	CURRENT[A]	ACIN 100V	1.0	1.4typ								
		ACIN 200V	0.5	0.7typ								
	FREQUENCY[Hz]		50/60 (47 - 63) or DC									
	EFFICIENCY[%]	ACIN 100V	71typ	75typ	79typ	79typ	79typ	81typ	81typ	81typ	82typ	83typ
		ACIN 200V	73typ	78typ	81typ	81typ	82typ	83typ	84typ	84typ	85typ	85typ
	POWER FACTOR	ACIN 100V	0.98typ	0.99typ								
		ACIN 200V	0.92typ	0.94typ								
	INRUSH CURRENT[A]	ACIN 100V	15typ (Io=100%) (At cold start) (Ta=25℃)									
		ACIN 200V	30typ (Io=100%) (At cold start) (Ta=25℃)									
	LEAKAGE CURRENT[mA]		0.75max (60Hz, According to IEC62368-1 and DEN-AN)									
OUTPUT	VOLTAGE[V]		3.3	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 (Peak 5.0)	3.5	2.2
	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	300max
	RIPPLE[mVp-p]	0 to +50℃ ＊2	80max	80max	120max	120max	120max	120max	120max	120max	120max	150max
		-10 - 0℃ ＊2	140max	140max	160max	160max	160max	160max	160max	160max	160max	200max
	RIPPLE NOISE[mVp-p]	0 to +50℃ ＊2	120max	120max	150max	150max	150max	150max	150max	150max	150max	350max
		-10 - 0℃ ＊2	160max	160max	180max	180max	180max	180max	180max	180max	180max	400max
	TEMPERATURE REGULATION[mV]	0 to +50℃	50max	50max	90max	120max	150max	180max	240max	240max	300max	480max
		-10 to +50℃	60max	60max	120max	150max	180max	200max	290max	290max	360max	600max
	DRIFT[mV]	＊3	20max	20max	36max	48max	60max	72max	96max	96max	120max	192max
	START-UP TIME[ms]		500max (ACIN 100V, Io=100%)									
	HOLD-UP TIME[ms]		20typ (Io=100%)									
	OUTPUT VOLTAGE ADJUSTMENT RANGE[V]		2.85 - 3.6	Fixed ("Y"which can be adjusted the output is available as optional:±10%)								
	OUTPUT VOLTAGE SETTING[V]		3.25 - 3.35	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	28.5 - 31.5	46.0 - 50.0
PROTECTION CIRCUIT AND OTHERS	OVERCURRENT PROTECTION		Works over 105% of rating (works over 105% of peak current at option -H) 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 · RC	＊4	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 · RC-FG	＊4	AC500V 1minute, Cutoff current = 100mA, DC500V 50MΩ min (At Room Temperature)									
	OUTPUT-RC	＊4	AC100V 1minute, Cutoff current = 100mA, DC100V 10MΩ 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, EN62368-1 Complies with DEN-AN and IEC62368-1 (At only AC input)									
	CONDUCTED NOISE		Complies with FCC-B, CISPR22-B, EN55022-B, VCCI-B									
	HARMONIC ATTENUATOR		Complies with IEC61000-3-2									
OTHERS	CASE SIZE/WEIGHT		62×35×222mm (W×H×D) /380g max (without chassis and cover)									
	COOLING METHOD		Convection									

＊1 Peak load for 10 sec. 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 22μF within 150mm from output terminal.
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 Applicable when remote control (optional) is added.
＊5 ( ):peak current.
＊6 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



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
CN1	1	AC(L)
	2	
	3	AC(N)
	4	
	5	FG

	Pin No.	Output
CN2	1~4	−V
	5~8	+V

〈Optional〉

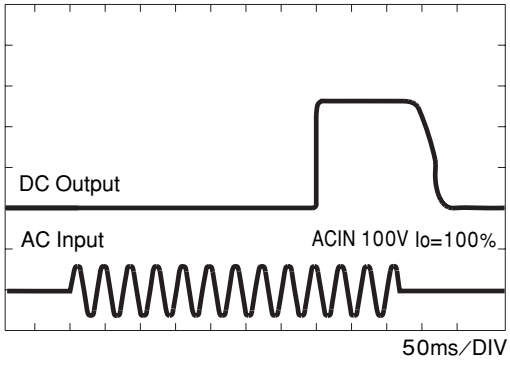
	Pin No.	Remote ON/OFF
CN3	1	RC(+)
	2	RC(−)

※Keep drawing current per pin below 5A for CN2

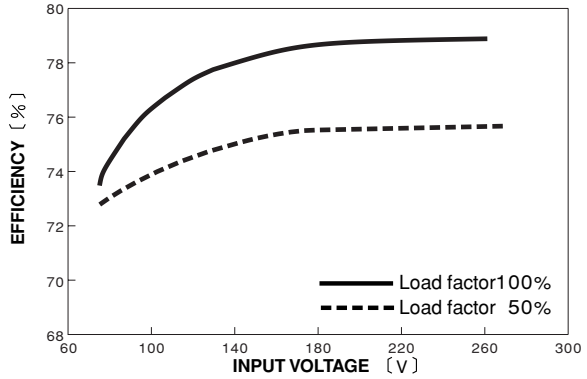
※Weight: 380g or less (Without chassis and cover)
※Tolerance: ±1
※Dimensions in mm.
※PCB Material: Glass composite (CEM3)
※Chassis and cover is optional.
※Chassis and cover is not available to remote ON/OFF unit.
※Mounting torque: 1.5N·m(16kgf·cm)max

Performance data

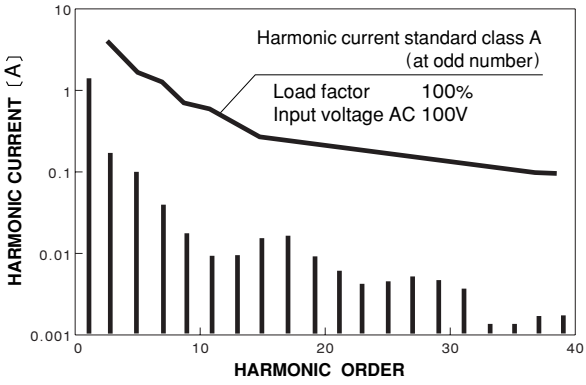
■RISE TIME & FALL TIME (LEA100F-5)



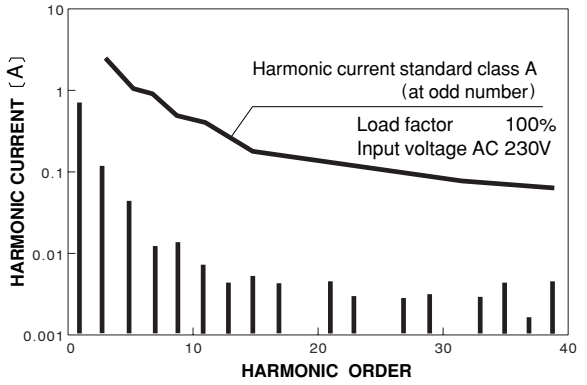
■EFFICIENCY (LEA100F-5)



■INPUT HARMONIC CURRENT (LEA100F-5)



■INPUT HARMONIC CURRENT (LEA100F-5)



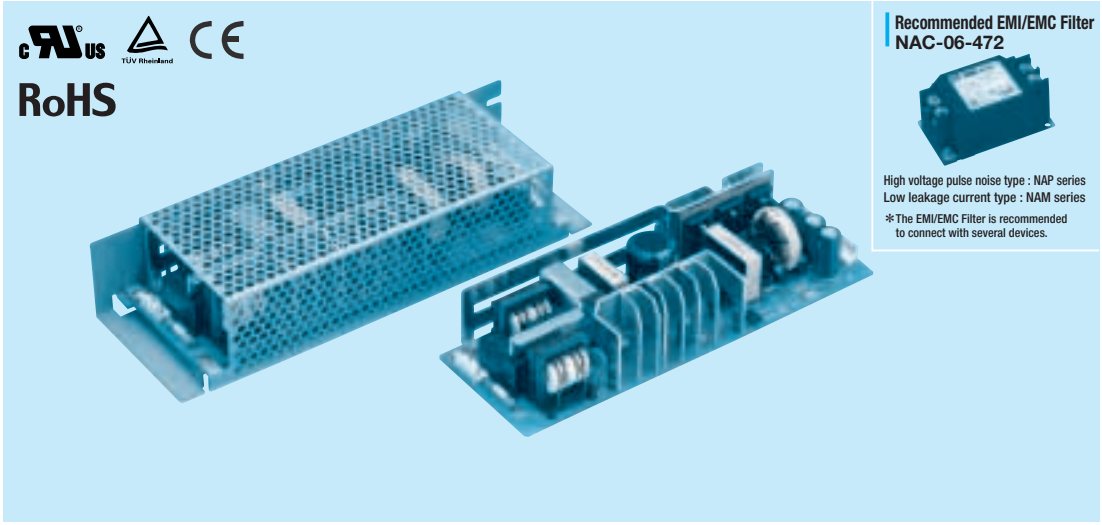
COSEL AC-DC Power Supplies Open Frame/Enclosed type

LEA150F

Ordering information

LEA 150 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.

①Series name
②Output wattage
③Universal input
④Output voltage
⑤Optional ＊6
C :with Coating
G :Low leakage current
J2:Mini terminal block
R :with Remote ON/OFF
S :with Chassis
SN:with Chassis & cover
Y :with Potentiometer

LEA

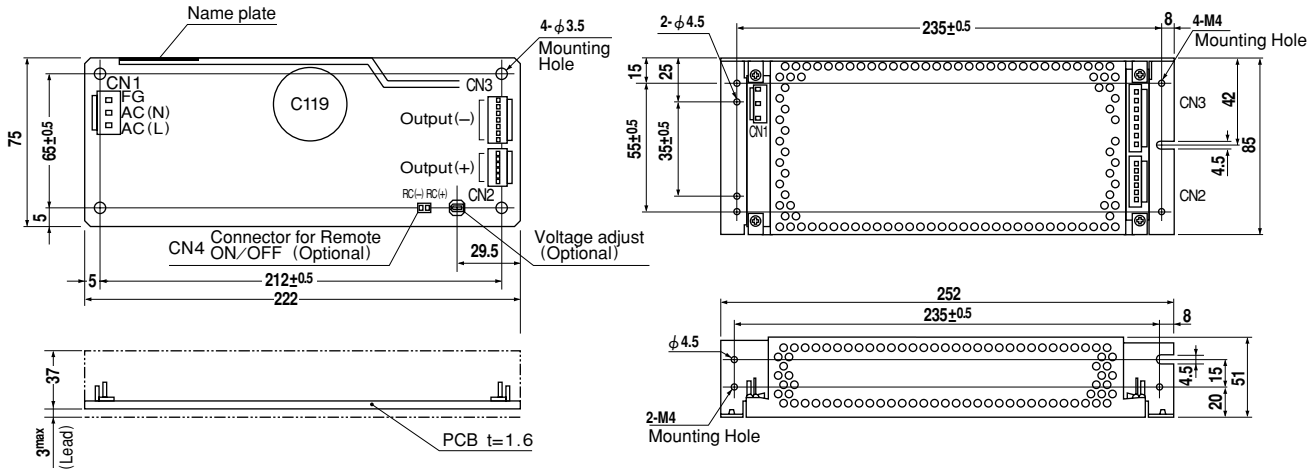
MODEL	LEA150F-3R3-Y	LEA150F-5	LEA150F-9	LEA150F-12	LEA150F-15	LEA150F-18	LEA150F-24	LEA150F-24-H	LEA150F-30	LEA150F-48
MAX OUTPUT WATTAGE[W]	99	150	153	150	150	153	151.2	151.2	150	153.6
DC OUTPUT ＊5	3.3V 30A	5V 30A	9V 17A	12V 12.5A	15V 10A	18V 8.5A	24V 6.3A	24V 6.3(7.5)A	30V 5A	48V 3.2A

SPECIFICATIONS

	MODEL		LEA150F-3R3-Y	LEA150F-5	LEA150F-9	LEA150F-12	LEA150F-15	LEA150F-18	LEA150F-24	LEA150F-24-H	LEA150F-30	LEA150F-48
INPUT	VOLTAGE[V]		AC85 - 264 1φ or DC120 - 370									
	CURRENT[A]	ACIN 100V	1.4	2.0typ								
		ACIN 200V	0.7	1.0typ								
	FREQUENCY[Hz]		50/60 (47 - 63) or DC									
	EFFICIENCY[%]	ACIN 100V	71typ	76typ	79typ	78typ	80typ	81typ	81typ	81typ	84typ	84typ
		ACIN 200V	74typ	79typ	82typ	81typ	83typ	84typ	84typ	84typ	87typ	87typ
	POWER FACTOR	ACIN 100V	0.98typ	0.99typ								
		ACIN 200V	0.91typ	0.94typ								
	INRUSH CURRENT[A]	ACIN 100V	15typ (Io=100%) (At cold start) (Ta=25℃)									
		ACIN 200V	30typ (Io=100%) (At cold start) (Ta=25℃)									
	LEAKAGE CURRENT[mA]		0.75max (60Hz, According to IEC62368-1 and DEN-AN)									
OUTPUT	VOLTAGE[V]		3.3	5	9	12	15	18	24	24	30	48
	CURRENT[A]	＊1	30	30	17	12.5	10	8.5	6.3	6.3 (Peak 7.5)	5	3.2
	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	300max
	RIPPLE[mVp-p]	0 to +50℃ ＊2	80max	80max	120max	120max	120max	120max	120max	120max	120max	150max
		-10 - 0℃ ＊2	140max	140max	160max	160max	160max	160max	160max	160max	160max	200max
	RIPPLE NOISE[mVp-p]	0 to +50℃ ＊2	120max	120max	150max	150max	150max	150max	150max	150max	150max	350max
		-10 - 0℃ ＊2	160max	160max	180max	180max	180max	180max	180max	180max	180max	400max
	TEMPERATURE REGULATION[mV]	0 to +50℃	50max	50max	90max	120max	150max	180max	240max	240max	300max	480max
		-10 to +50℃	60max	60max	120max	150max	180max	200max	290max	290max	360max	600max
	DRIFT[mV]	＊3	20max	20max	36max	48max	60max	72max	96max	96max	120max	192max
	START-UP TIME[ms]		500max (ACIN 100V, Io=100%)									
	HOLD-UP TIME[ms]		20typ (Io=100%)									
	OUTPUT VOLTAGE ADJUSTMENT RANGE[V]		2.85 - 3.6	Fixed ("Y"which can be adjusted the output is available as optional:±10%)								
	OUTPUT VOLTAGE SETTING[V]		3.25 - 3.35	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	28.5 - 31.5	46.0 - 50.0
PROTECTION CIRCUIT AND OTHERS	OVERCURRENT PROTECTION		Works over 105% of rating (works over 105% of peak current at option -H) 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 · RC	＊4	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 · RC-FG	＊4	AC500V 1minute, Cutoff current = 100mA, DC500V 50MΩ min (At Room Temperature)									
	OUTPUT-RC	＊4	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) 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, EN62368-1 Complies with DEN-AN and IEC62368-1 (At only AC input)									
	CONDUCTED NOISE		Complies with FCC-B, CISPR22-B, EN55022-B, VCCI-B									
	HARMONIC ATTENUATOR		Complies with IEC61000-3-2									
OTHERS	CASE SIZE/WEIGHT		75×40×222mm (W×H×D) /500g max (without chassis and cover)									
	COOLING METHOD		Convection									

＊1 Peak load for 10 sec. 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 22μF within 150mm from output terminal.
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 Applicable when remote control (optional) is added.
＊5 ( ): peak current.
＊6 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



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
CN1	1	AC(L)
	2	
	3	AC(N)
	4	
	5	FG

	Pin No.	Output
CN2	1~6	+V
CN3	1~7	–V

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

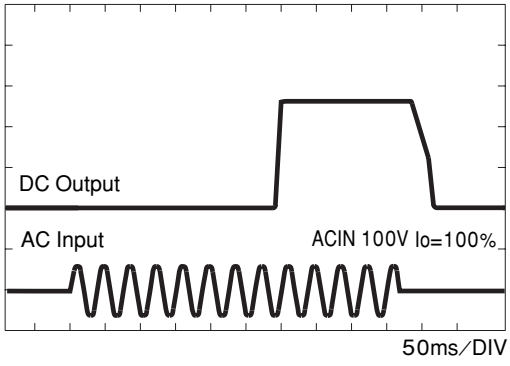
〈Optional〉

	Pin No.	Remote ON/OFF
CN4	1	RC(+)
	2	RC(–)

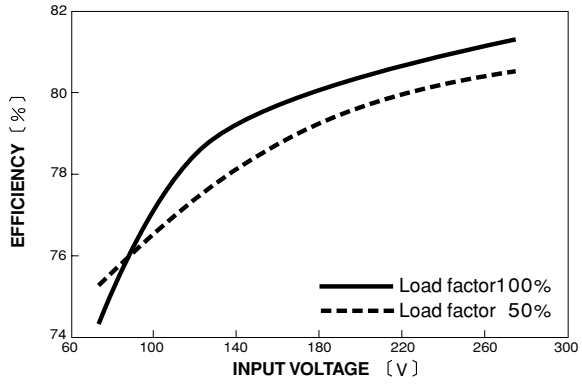
※Weight: 500g or less (Without chassis and cover)
※Tolerance: ±1
※Dimensions in mm.
※PCB Material: Glass composite (CEM3)
※Chassis and cover is optional.
※Chassis and cover is not available to remote ON/OFF unit.
※Mounting torque: 1.5N·m(16kgf·cm)max

Performance data

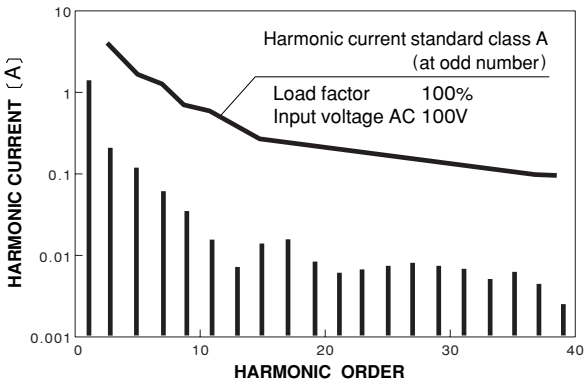
■RISE TIME & FALL TIME (LEA150F-5)



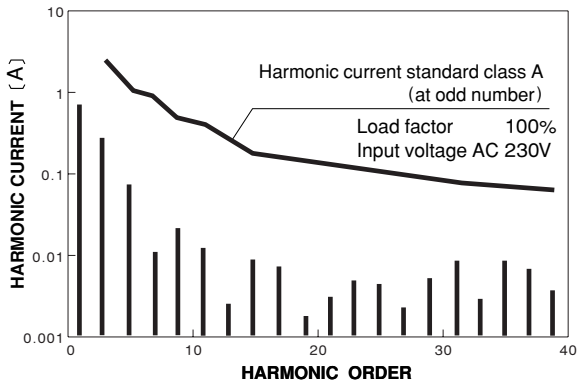
■EFFICIENCY (LEA150F-5)



■INPUT HARMONIC CURRENT (LEA150F-5)



■INPUT HARMONIC CURRENT (LEA150F-5)



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