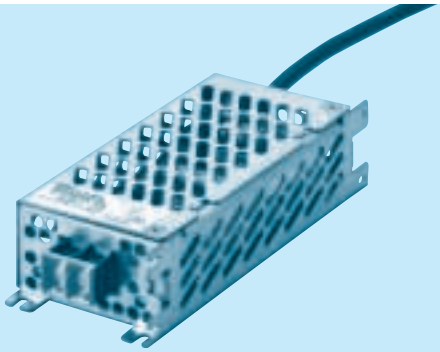
COSEL AC-DC Power Supplies Value-added type

SPLFA30F

Ordering information

SPLF ① A ② 30 ③ F ④ -□ ⑤ -□ ⑧



①Series name
②Single output
③Output wattage
④Universal input
⑤Output voltage
⑥Optional
C : with Coating

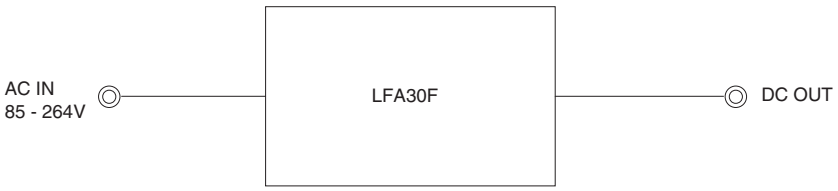
MODEL	SPLFA30F-5	SPLFA30F-12	SPLFA30F-24
MAX OUTPUT WATTAGE[W]	30.0	30.0	31.2
DC OUTPUT	5V 6A	12V 2.5A	24V 1.3A

SPECIFICATIONS

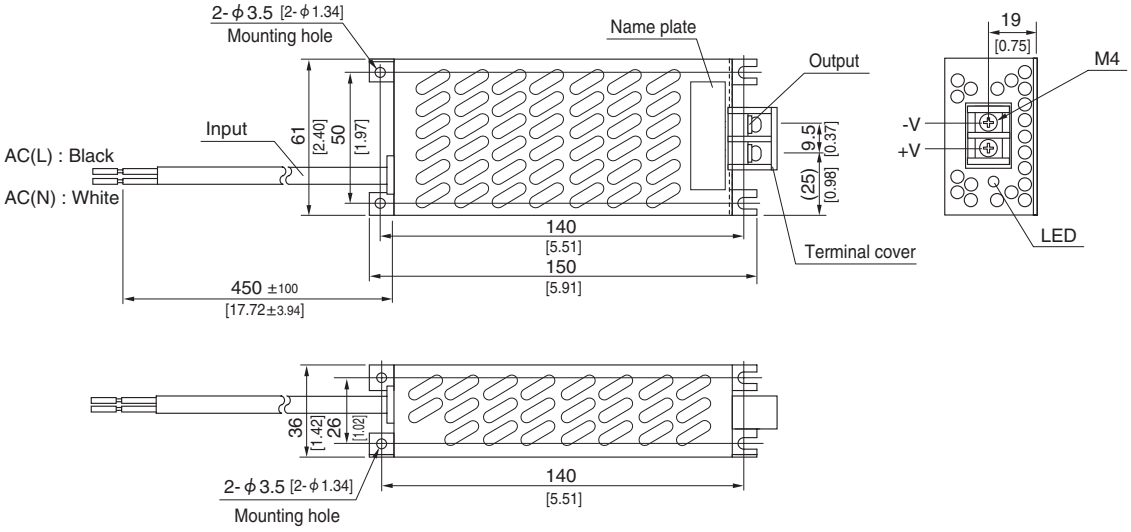
	MODEL		SPLFA30F-5	SPLFA30F-12	SPLFA30F-24
INPUT	VOLTAGE[V]		AC85 - 264 1φ (Refer to Instruction Manual 1.1 and 3.1) *3		
	CURRENT[A]	ACIN 100V	0.65typ (Io=100%)		
		ACIN 200V	0.35typ (Io=100%)		
	FREQUENCY[Hz]		50 / 60 (47 - 440)		
	EFFICIENCY[%]	ACIN 100V	75.0typ	78.0typ	81.0typ
		ACIN 200V	77.0typ	80.0typ	83.0typ
	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]		0.30 / 0.65max (ACIN 100V / 240V 60Hz, Io=100%, According to IEC60950-1 and DEN-AN)		
OUTPUT	VOLTAGE[V]		5	12	24
	CURRENT[A]		6.0	2.5	1.3
	LINE REGULATION[mV] *5		20max	48max	96max
	LOAD REGULATION[mV] *5		100max	100max	150max
	RIPPLE[mVp-p]	0 to +50℃ *1	100max	120max	120max
		-10 - 0℃ *1	140max	160max	160max
	RIPPLE NOISE[mVp-p]	0 to +50℃ *1	250max	250max	250max
		-10 - 0℃ *1	300max	300max	300max
	TEMPERATURE REGULATION[mV]	0 to +50℃	50max	120max	240max
		-10 to +50℃	60max	150max	290max
	DRIFT[mV] *2		20max	48max	96max
	START-UP TIME[ms]		150typ (ACIN 100V, Io=100%)		
	HOLD-UP TIME[ms]		20typ (ACIN 100V, Io=100%)		
	OUTPUT VOLTAGE SETTING[V]		4.90 to 5.30	11.50 to 12.50	23.00 to 25.00
PROTECTION CIRCUIT AND OTHERS	OVERCURRENT PROTECTION		Works over 105% of rating and recovers automatically		
	OVERVOLTAGE PROTECTION[V]		5.75 to 7.00	13.80 to 16.80	27.60 to 33.60
	OPERATING INDICATION		LED (Green)		
	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 = 25mA, DC500V 50MΩ min (At Room Temperature)		
ENVIRONMENT	OPERATING TEMP.,HUMID.AND ALTITUDE		-10 to +60℃, 20 - 90%RH (Non condensing) (Refer to DERATING CURVE), 3,000m (10,000feet) max *3		
	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		DEN-AN		
	CONDUCTED NOISE/POWER		Complies with DEN-AN		
	HARMONIC ATTENUATOR		Complies with IEC61000-3-2 class A (Not built-in to active filter *4, Please contact us for the details of class C.)		
OTHERS	CASE SIZE/WEIGHT		61×36×150mm [2.40×1.42×5.91 inches] (W×H×D) / 370g max		
	COOLING METHOD		Convection		

*1 Measured by 20MHz oscilloscope or Ripple-Noise meter (Equivalent to KEISOKU-GIKEN: RM103).
*2 Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25℃, with the input voltage held constant at the rated input/output.
*3 Derating is required.
*4 When two or more units are operating it may not comply with the IEC61000-3-2. Please contact us for details.
*5 Please contact us about dynamic load and input response.
* To meet the specifications. Do not operate over-loaded condition.
* Parallel operation is not possible.
* Derating is required when operated with chassis and cover.
* Sound noise may be generated by power supply in case of pulse load.

Block diagram



External view



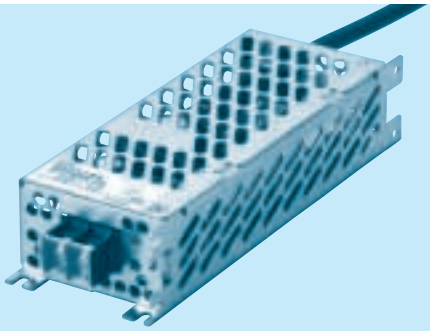
※ Tolerance : ±1 [±0.04]
※ Weight : 370g max
※ PCB material/thickness : CEM3 / 1.6mm [0.06]
※ Chassis and cover material : Electric galvanizing steel board
※ Dimensions in mm, [ ]=inches
※ Mounting torque : M4 : 1.6N・m (16.9kgf・cm) max
※ Input wire : VCTF 0.75sq×2C

COSEL AC-DC Power Supplies Value-added type

SPLFA50F

Ordering information

SPLF ① A ② 50 ③ F ④ -□ ⑤ -□ ⑧



①Series name
②Single output
③Output wattage
④Universal input
⑤Output voltage
⑥Optional
C : with Coating

MODEL	SPLFA50F-5	SPLFA50F-12	SPLFA50F-24
MAX OUTPUT WATTAGE[W]	50	51.6	50.4
DC OUTPUT	5V 10A	12V 4.3A	24V 2.1A

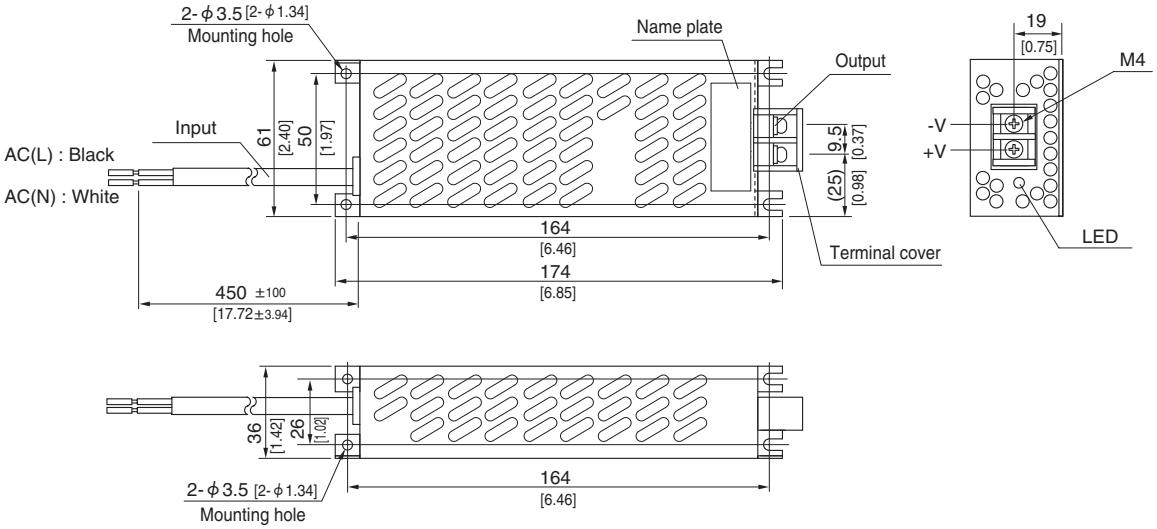
SPECIFICATIONS

	MODEL		SPLFA50F-5	SPLFA50F-12	SPLFA50F-24
INPUT	VOLTAGE[V]		AC85 - 264 1φ (Refer to Instruction Manual 1.1 and 3.1) *3		
	CURRENT[A]	ACIN 100V	0.67typ (Io=100%)		
		ACIN 200V	0.36typ (Io=100%)		
	FREQUENCY[Hz]		50 / 60 (47 - 63)		
	EFFICIENCY[%]	ACIN 100V	76.5typ	79.0typ	80.5typ
		ACIN 200V	78.0typ	80.5typ	82.0typ
	POWER FACTOR (Io=100%)	ACIN 100V	0.97typ		
		ACIN 200V	0.90typ		
	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]		0.40 / 0.75max (ACIN 100V / 240V 60Hz, Io=100%, According to IEC60950-1 and DEN-AN)		
OUTPUT	VOLTAGE[V]		5	12	24
	CURRENT[A]		10.0	4.3	2.1
	LINE REGULATION[mV] *4		20max	48max	96max
	LOAD REGULATION[mV] *4		150max	150max	150max
	RIPPLE[mVp-p]	0 to +50℃ *1	100max	120max	120max
		-10 - 0℃ *1	140max	160max	160max
	RIPPLE NOISE[mVp-p]	0 to +50℃ *1	250max	250max	250max
		-10 - 0℃ *1	300max	300max	300max
	TEMPERATURE REGULATION[mV]	0 to +50℃	50max	120max	240max
		-10 to +50℃	60max	150max	290max
	DRIFT[mV] *2		20max	48max	96max
	START-UP TIME[ms]		350typ (ACIN 100V, Io=100%)		
	HOLD-UP TIME[ms]		20typ (ACIN 100V, Io=100%)		
	OUTPUT VOLTAGE SETTING[V]		4.90 to 5.30	11.50 to 12.50	23.00 to 25.00
PROTECTION CIRCUIT AND OTHERS	OVERCURRENT PROTECTION		Works over 105% of rating and recovers automatically		
	OVERVOLTAGE PROTECTION[V]		5.75 to 7.00	13.80 to 16.80	27.60 to 33.60
	OPERATING INDICATION		LED (Green)		
	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 = 25mA, DC500V 50MΩ min (At Room Temperature)		
ENVIRONMENT	OPERATING TEMP.,HUMID.AND ALTITUDE		-10 to +50℃, 20 - 90%RH (Non condensing) (Refer to DERATING CURVE), 3,000m (10,000feet) max *3		
	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		DEN-AN		
	CONDUCTED NOISE/POWER		Complies with DEN-AN		
	HARMONIC ATTENUATOR		Complies with IEC61000-3-2 (Please contact us for the details of class C.)		
OTHERS	CASE SIZE/WEIGHT		61×36×174mm [2.40×1.42×6.85 inches] (W×H×D) / 440g max		
	COOLING METHOD		Convection		

*1 Measured by 20MHz oscilloscope or Ripple-Noise meter (Equivalent to KEISOKU-GIKEN: RM103).
*2 Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25℃, with the input voltage held constant at the rated input/output.
*3 Derating is required.
*4 When two or more units are operating it may not comply with the IEC61000-3-2. Please contact us for details.
*5 Please contact us about dynamic load and input response.
* To meet the specifications. Do not operate over-loaded condition.
* Parallel operation is not possible.
* Derating is required when operated with chassis and cover.
* Sound noise may be generated by power supply in case of pulse load.

Block diagram

External view



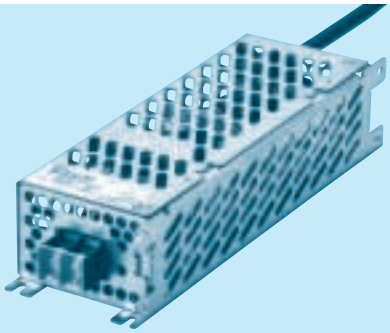
※ Tolerance : ±1 [±0.04]
※ Weight : 440g max
※ PCB material/thickness : CEM3 / 1.6mm [0.06]
※ Chassis and cover material : Electric galvanizing steel board
※ Dimensions in mm, [ ]=inches
※ Mounting torque : M4 : 1.6N · m (16.9kgf · cm) max
※ Input wire : VCTF 0.75sq×2C

COSEL AC-DC Power Supplies Value-added type

SPLFA75F

Ordering information

SPLF ① A ② 75 ③ F ④ -□ ⑤ -□ ⑧



①Series name
②Single output
③Output wattage
④Universal input
⑤Output voltage
⑥Optional
C : with Coating

MODEL	SPLFA75F-5	SPLFA75F-12	SPLFA75F-24
MAX OUTPUT WATTAGE[W]	75	75.6	76.8
DC OUTPUT	5V 15A	12V 6.3A	24V 3.2A

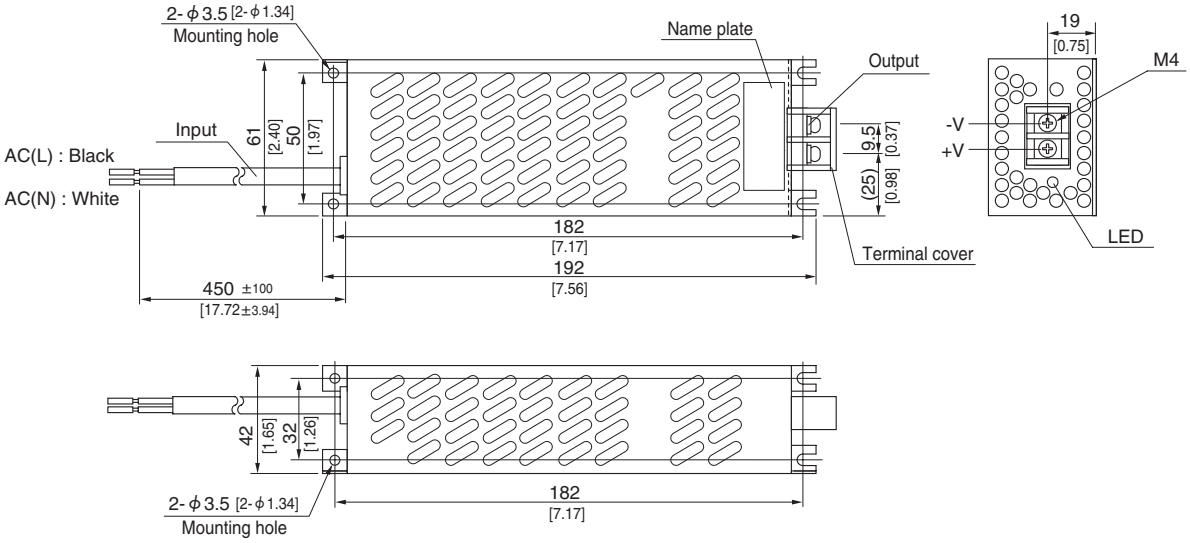
SPECIFICATIONS

	MODEL		SPLFA75F-5	SPLFA75F-12	SPLFA75F-24
INPUT	VOLTAGE[V]		AC85 - 264 1φ (Refer to Instruction Manual 1.1 and 3.1) *3		
	CURRENT[A]	ACIN 100V	1.00typ (Io=100%)		
		ACIN 200V	0.50typ (Io=100%)		
	FREQUENCY[Hz]		50 / 60 (47 - 63)		
	EFFICIENCY[%]	ACIN 100V	75.0typ	80.0typ	81.5typ
		ACIN 200V	77.0typ	82.0typ	83.5typ
	POWER FACTOR (Io=100%)	ACIN 100V	0.97typ		
		ACIN 200V	0.90typ		
	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]		0.40 / 0.75max (ACIN 100V / 240V 60Hz, Io=100%, According to IEC60950-1 and DEN-AN)		
OUTPUT	VOLTAGE[V]		5	12	24
	CURRENT[A]		15.0	6.3	3.2
	LINE REGULATION[mV] *4		20max	48max	96max
	LOAD REGULATION[mV] *4		150max	150max	150max
	RIPPLE[mVp-p]	0 to +50℃ *1	100max	120max	120max
		-10 - 0℃ *1	140max	160max	160max
	RIPPLE NOISE[mVp-p]	0 to +50℃ *1	250max	250max	250max
		-10 - 0℃ *1	300max	300max	300max
	TEMPERATURE REGULATION[mV]	0 to +50℃	50max	120max	240max
		-10 to +50℃	60max	150max	290max
	DRIFT[mV] *2		20max	48max	96max
	START-UP TIME[ms]		350typ (ACIN 100V, Io=100%)		
	HOLD-UP TIME[ms]		20typ (ACIN 100V, Io=100%)		
	OUTPUT VOLTAGE SETTING[V]		4.90 to 5.30	11.50 to 12.50	23.00 to 25.00
PROTECTION CIRCUIT AND OTHERS	OVERCURRENT PROTECTION		Works over 105% of rating and recovers automatically		
	OVERVOLTAGE PROTECTION[V]		5.75 to 7.00	13.80 to 16.80	27.60 to 33.60
	OPERATING INDICATION		LED (Green)		
	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 = 25mA, DC500V 50MΩ min (At Room Temperature)		
ENVIRONMENT	OPERATING TEMP.,HUMID.AND ALTITUDE		-10 to +50℃, 20 - 90%RH (Non condensing) (Refer to DERATING CURVE), 3,000m (10,000feet) max *3		
	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		DEN-AN		
	CONDUCTED NOISE/POWER		Complies with DEN-AN		
	HARMONIC ATTENUATOR		Complies with IEC61000-3-2 (Please contact us for the details of class C.)		
OTHERS	CASE SIZE/WEIGHT		61×42×192mm [2.40×1.65×7.56 inches] (W×H×D) / 540g max		
	COOLING METHOD		Convection		

*1 Measured by 20MHz oscilloscope or Ripple-Noise meter (Equivalent to KEISOKU-GIKEN: RM103).
*2 Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25℃, with the input voltage held constant at the rated input/output.
*3 Derating is required.
*4 When two or more units are operating it may not comply with the IEC61000-3-2. Please contact us for details.
*5 Please contact us about dynamic load and input response.
* To meet the specifications. Do not operate over-loaded condition.
* Parallel operation is not possible.
* Derating is required when operated with chassis and cover.
* Sound noise may be generated by power supply in case of pulse load.

Block diagram

External view



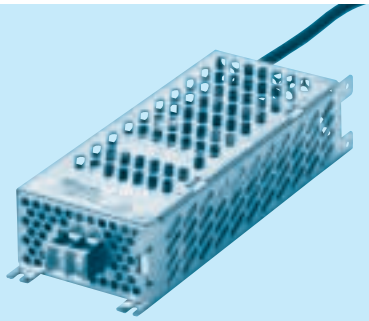
※ Tolerance : ±1 [±0.04]
※ Weight : 540g max
※ PCB material/thickness : CEM3 / 1.6mm [0.06]
※ Chassis and cover material : Electric galvanizing steel board
※ Dimensions in mm, [ ]=inches
※ Mounting torque : M4 : 1.6N · m (16.9kgf · cm) max
※ Input wire : VCTF 0.75sq×2C

COSEL AC-DC Power Supplies Value-added type

SPLFA100F

Ordering information

SPLF ① A ② 100 ③ F ④ -□ ⑤ -□ ⑧



①Series name
②Single output
③Output wattage
④Universal input
⑤Output voltage
⑥Optional
C : with Coating

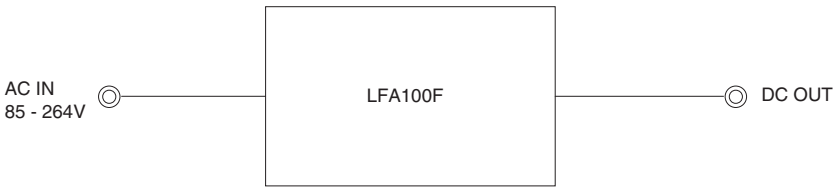
MODEL	SPLFA100F-12	SPLFA100F-24
MAX OUTPUT WATTAGE[W]	102.0	103.2
DC OUTPUT	12V 8.5A	24V 4.3A

SPECIFICATIONS

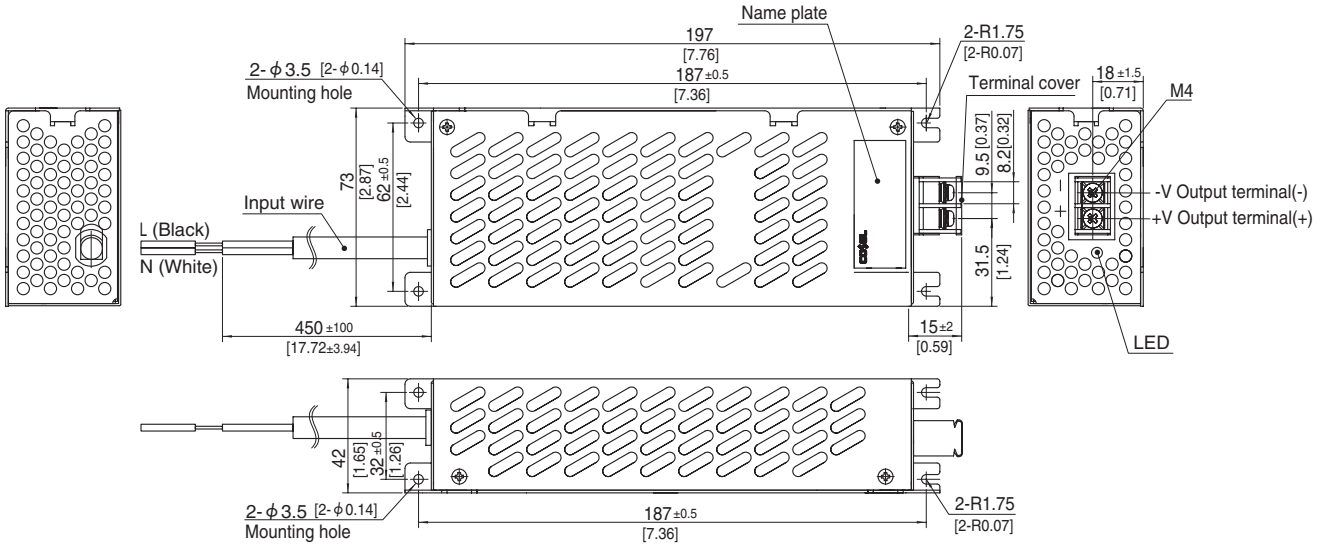
	MODEL		SPLFA100F-12	SPLFA100F-24
INPUT	VOLTAGE[V]		AC85 - 264 1φ (Refer to Instruction Manual 1.1 and 3.1) *3	
	CURRENT[A]	ACIN 100V	1.3typ (Io=100%)	
		ACIN 200V	0.7typ (Io=100%)	
	FREQUENCY[Hz]		50 / 60 (47 - 63)	
	EFFICIENCY[%]	ACIN 100V	80.5typ	83.0typ
		ACIN 200V	83.5typ	86.0typ
	POWER FACTOR (Io=100%)	ACIN 100V	0.97typ	
		ACIN 200V	0.90typ	
	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]		0.40 / 0.75max (ACIN 100V / 240V 60Hz, Io=100%, According to IEC60950-1 and DEN-AN)	
OUTPUT	VOLTAGE[V]		12	24
	CURRENT[A]		8.5	4.3
	LINE REGULATION[mV] *4		48max	96max
	LOAD REGULATION[mV] *4		150max	150max
	RIPPLE[mVp-p]	0 to +50℃ *1	120max	120max
		-10 - 0℃ *1	160max	160max
	RIPPLE NOISE[mVp-p]	0 to +50℃ *1	250max	250max
		-10 - 0℃ *1	300max	300max
	TEMPERATURE REGULATION[mV]	0 to +50℃	120max	240max
		-10 to +50℃	150max	290max
	DRIFT[mV] *2		48max	96max
	START-UP TIME[ms]		350typ (ACIN 100V, Io=100%)	
	HOLD-UP TIME[ms]		20typ (ACIN 100V, Io=100%)	
	OUTPUT VOLTAGE SETTING[V]		11.50 to 12.50	23.00 to 25.00
PROTECTION CIRCUIT AND OTHERS	OVERCURRENT PROTECTION		Works over 105% of rating and recovers automatically	
	OVERVOLTAGE PROTECTION[V]		13.80 to 16.80	27.60 to 33.60
	OPERATING INDICATION		LED (Green)	
	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 = 25mA, DC500V 50MΩ min (At Room Temperature)	
ENVIRONMENT	OPERATING TEMP.,HUMID.AND ALTITUDE		-10 to +50℃, 20 - 90%RH (Non condensing) (Refer to DERATING CURVE), 3,000m (10,000feet) max *3	
	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		DEN-AN	
	CONDUCTED NOISE/POWER		Complies with DEN-AN	
	HARMONIC ATTENUATOR		Complies with IEC61000-3-2 (Please contact us for the details of class C.)	
OTHERS	CASE SIZE/WEIGHT		73×42×197mm [2.87×1.65×7.76 inches] (W×H×D) / 670g max	
	COOLING METHOD		Convection	

*1 Measured by 20MHz oscilloscope or Ripple-Noise meter (Equivalent to KEISOKU-GIKEN: RM103).
*2 Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25℃, with the input voltage held constant at the rated input/output.
*3 Derating is required.
*4 When two or more units are operating it may not comply with the IEC61000-3-2. Please contact us for details.
*5 Please contact us about dynamic load and input response.
* To meet the specifications. Do not operate over-loaded condition.
* Parallel operation is not possible.
* Derating is required when operated with chassis and cover.
* Sound noise may be generated by power supply in case of pulse load.

Block diagram



External view



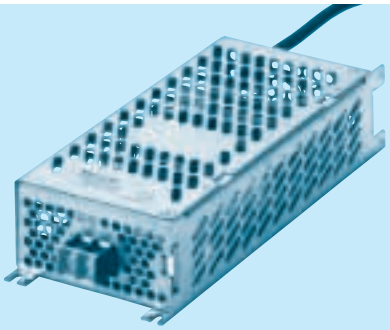
※ Tolerance : ±1 [±0.04]
※ Weight : 670g max
※ Dimensions in mm, [ ]=inches
※ Chassis material : Galvanized Steel board
※ Screw tightening torque : M4 : 1.6N · m (16.9kgf · cm) max
※ Input wire : VCTF 0.75sq×2C

COSEL AC-DC Power Supplies Value-added type

SPLFA150F

Ordering information

SPLF ① A ② 150 ③ F ④ -□ ⑤ -□ ⑧



①Series name
②Single output
③Output wattage
④Universal input
⑤Output voltage
⑥Optional
C : with Coating

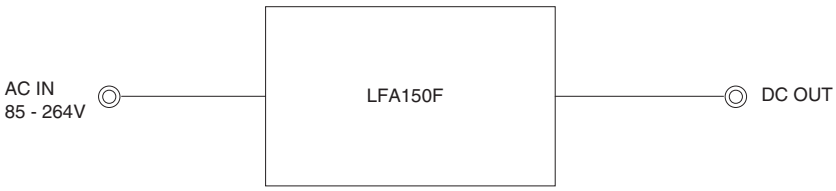
MODEL	SPLFA150F-12	SPLFA150F-24
MAX OUTPUT WATTAGE[W]	150	151.2
DC OUTPUT	12V 12.5A	24V 6.3A

SPECIFICATIONS

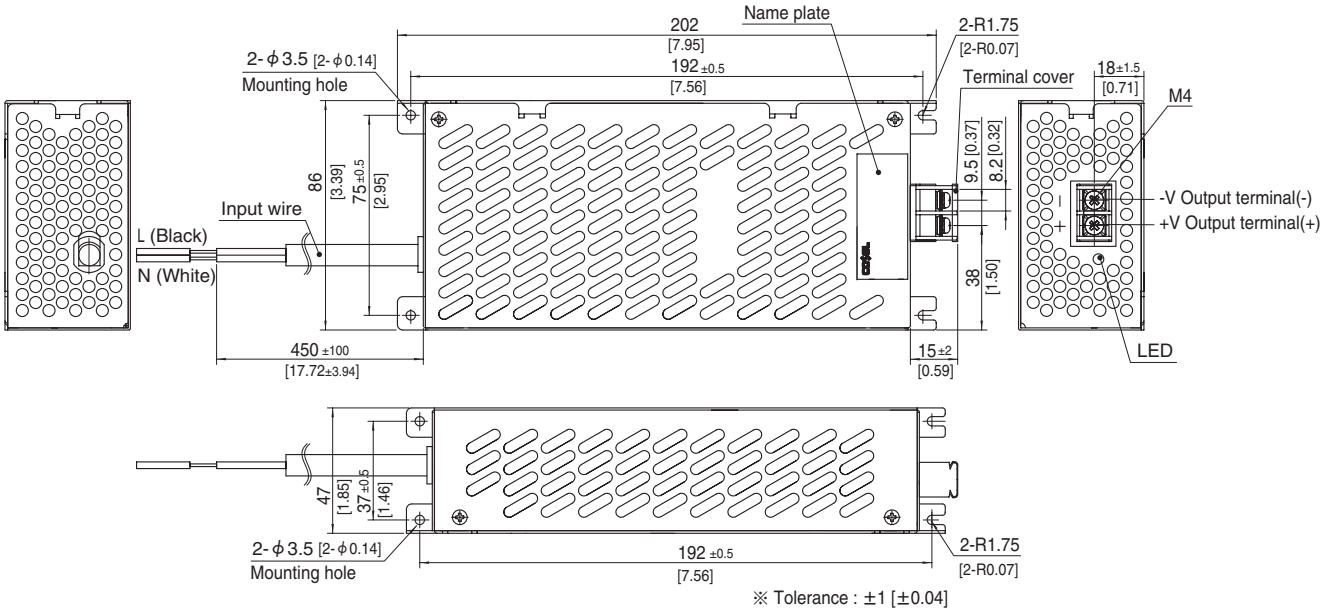
	MODEL		SPLFA150F-12	SPLFA150F-24
INPUT	VOLTAGE[V]		AC85 - 264 1φ (Refer to Instruction Manual 1.1 and 3.1) *3	
	CURRENT[A]	ACIN 100V	2.0typ (Io=100%)	
		ACIN 200V	1.0typ (Io=100%)	
	FREQUENCY[Hz]		50 / 60 (47 - 63)	
	EFFICIENCY[%]	ACIN 100V	81.0typ	84.0typ
		ACIN 200V	84.0typ	86.5typ
	POWER FACTOR (Io=100%)	ACIN 100V	0.97typ	
		ACIN 200V	0.90typ	
	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]		0.40 / 0.75max (ACIN 100V / 240V 60Hz, Io=100%, According to IEC60950-1 and DEN-AN)	
OUTPUT	VOLTAGE[V]		12	24
	CURRENT[A]		12.5	6.3
	LINE REGULATION[mV] *4		48max	96max
	LOAD REGULATION[mV] *4		150max	150max
	RIPPLE[mVp-p]	0 to +50℃ *1	120max	120max
		-10 - 0℃ *1	160max	160max
	RIPPLE NOISE[mVp-p]	0 to +50℃ *1	250max	250max
		-10 - 0℃ *1	300max	300max
	TEMPERATURE REGULATION[mV]	0 to +50℃	120max	240max
		-10 to +50℃	150max	290max
	DRIFT[mV] *2		48max	96max
	START-UP TIME[ms]		350typ (ACIN 100V, Io=100%)	
	HOLD-UP TIME[ms]		20typ (ACIN 100V, Io=100%)	
	OUTPUT VOLTAGE SETTING[V]		11.50 to 12.50	23.00 to 25.00
PROTECTION CIRCUIT AND OTHERS	OVERCURRENT PROTECTION		Works over 105% of rating and recovers automatically	
	OVERVOLTAGE PROTECTION[V]		13.80 to 16.80	27.60 to 33.60
	OPERATING INDICATION		LED (Green)	
	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 = 25mA, DC500V 50MΩ min (At Room Temperature)	
ENVIRONMENT	OPERATING TEMP.,HUMID.AND ALTITUDE		-10 to +50℃, 20 - 90%RH (Non condensing) (Refer to DERATING CURVE), 3,000m (10,000feet) max *3	
	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		DEN-AN	
	CONDUCTED NOISE/POWER		Complies with DEN-AN	
	HARMONIC ATTENUATOR		Complies with IEC61000-3-2 (Please contact us for the details of class C.)	
OTHERS	CASE SIZE/WEIGHT		86×47×202mm [3.39×1.85×7.95 inches] (W×H×D) / 850g max	
	COOLING METHOD		Convection	

*1 Measured by 20MHz oscilloscope or Ripple-Noise meter (Equivalent to KEISOKU-GIKEN: RM103).
*2 Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25℃, with the input voltage held constant at the rated input/output.
*3 Derating is required.
*4 When two or more units are operating it may not comply with the IEC61000-3-2. Please contact us for details.
*5 Please contact us about dynamic load and input response.
* To meet the specifications. Do not operate over-loaded condition.
* Parallel operation is not possible.
* Derating is required when operated with chassis and cover.
* Sound noise may be generated by power supply in case of pulse load.

Block diagram



External view



※ Tolerance : ±1 [±0.04]
※ Weight : 850g max
※ Dimensions in mm, [ ]=inches
※ Chassis material : Galvanized Steel board
※ Screw tightening torque : M4 : 1.6N・m (16.9kgf・cm) max
※ Input wire : VCTF 0.75sq×2C