

	MODEL		SPLFA30F-5	SPLFA30F-12	SPLFA30F-24	
ĺ	VOLTAGE[V]		AC85 - 264 1 ¢ (Refer to Instructi	on Manual 1.1 and 3.1) *3		
		ACIN 100V	/ 0.65typ (lo=100%)			
	CURRENT[A] ACIN 200V					
	FREQUENCY[Hz]		50 / 60 (47 - 440)			
INPUT	EFFICIENCY[%]	ACIN 100V	75.0typ	78.0typ	81.0typ	
		ACIN 200V	77.0typ	80.0typ	83.0typ	
		ACIN 100V	15typ (Io=100%) (At cold start) (Ta	i=25℃)	·	
	INRUSH CURRENT[A]	ACIN 200V	30typ (lo=100%) (At cold start) (Ta=25°C)			
	LEAKAGE CURREN	T[mA]	0.30 / 0.65max (ACIN 100V / 240V 60Hz, lo=100%, According to IEC60950-1 and DEN-AN)			
	VOLTAGE[V]		5	12	24	
	CURRENT[A]		6.0	2.5	1.3	
l l	LINE REGULATION	mV] *5	20max	48max	96max	
	LOAD REGULATION	[mV] *5	100max	100max	150max	
l l		0 to +50℃ *1	100max	120max	120max	
	RIPPLE[mVp-p]	-10-0°C *1	140max	160max	160max	
Ουτρυτ		0 to +50℃*1	250max	250max	250max	
	RIPPLE NOISE[mVp-p]	-10-0°C *1	300max	300max	300max	
		0 to +50℃	50max	120max	240max	
	TEMPERATURE REGULATION[mV]	-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 SET	TING[V]	4.90 to 5.30	11.50 to 12.50	23.00 to 25.00	
	OVERCURRENT PROT	ECTION	Works over 105% of rating and recovers automatically			
ROTECTION	OVERVOLTAGE PROTE	CTION[V]	5.75 to 7.00	13.80 to 16.80	27.60 to 33.60	
IRCUIT AND	OPERATING INDICA	TION	LED (Green)			
THERS	REMOTE SENSING		Not provided			
	REMOTE ON/OFF		Not provided			
	INPUT-OUTPUT		AC3,000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (At Room Temperature)			
SOLATION	INPUT-FG		AC2,000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (At Room Temperature)			
	OUTPUT-FG		AC500V 1minute, Cutoff current = 25mA, DC500V 50M Ω 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 *3			
	STORAGE TEMP., HUMID.AND	ALTITUDE	-20 to +75°C, 20 - 90%RH (Non condensing), 9,000m (30,000feet) max			
	VIBRATION		10 - 55Hz, 19.6m/s ² (2G), 3minutes period, 60minutes each along X, Y and Z axis			
	IMPACT		196.1m/s ² (20G), 11ms, once each X, Y and Z axis			
SAFETY AND	AGENCY APPROVA	S	DEN-AN			
NOISE	CONDUCTED NOISE/	POWER	Complies with DEN-AN			
REGULATIONS	HARMONIC ATTENL	ATOR *4	Complies with IEC61000-3-2 clas	s A (Not built-in to active filter)		
OTHERS	CASE SIZE/WEIGHT		61×36×150mm [2.40×1.42×5.	91 inches] (W×H×D) / 370g m	nax	
UITERS	COOLING METHOD					

*1

Measured by 20MHz oscilloscope or Ripple-Noise meter (Equivalent to KEISOKU-GIKEN: RM103). 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

*3 Derating is required.

When two or more units are operating it may not comply with the IEC61000-3-2. Please contact us about another class. Please contact us about dynamic load and input response. To meet the specifications. Do not operate over-loaded condition. *4

*5 *

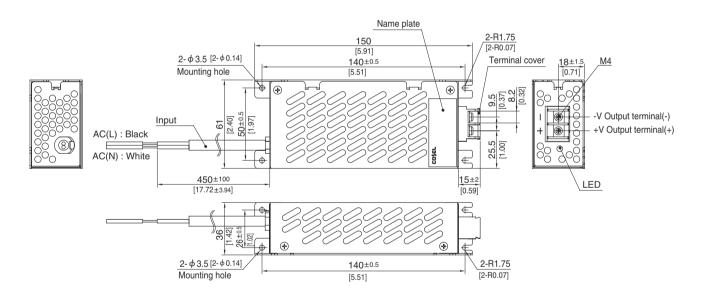
* Parallel operation is not possible.

Derating is required when operated with chassis and cover. Sound noise may be generated by power supply in case of pulse load. *

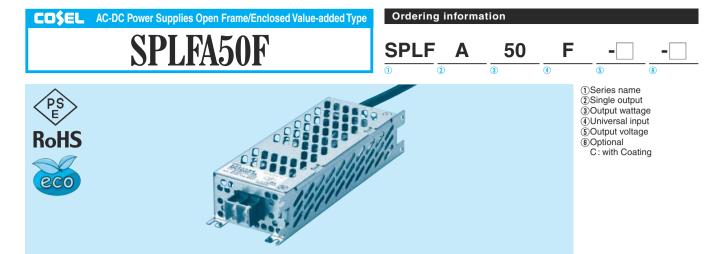




External view



- % 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 \cdot m (16.9kgf \cdot cm) max
- % Input wire : VCTF 0.75sq × 2C



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

M	ODEL		SPLFA50F-5	SPLFA50F-12	SPLFA50F-24		
VC	OLTAGE[V]		AC85 - 264 1 ϕ (Refer to Ir	nstruction Manual 1.1 and 3.1) *3			
C1	URRENT[A]	ACIN 100V	0.67typ (lo=100%)				
	UNNENT[A]	ACIN 200V	0.36typ (lo=100%)				
FF	FREQUENCY[Hz]		50 / 60 (47 - 63)				
	EFFICIENCY[%]	ACIN 100V	76.5typ	79.0typ	80.5typ		
		ACIN 200V	78.0typ	80.5typ	82.0typ		
PO	POWER FACTOR (lo=100%)	ACIN 100V	0.97typ				
FU	WEN FACTOR (10=100 %)	ACIN 200V	0.90typ				
IN		ACIN 100V	15typ (Io=100%) (At cold st	art) (Ta=25℃)			
IN	INRUSH CURRENT[A]		30typ (Io=100%) (At cold start) (Ta=25°C)				
LE	EAKAGE CURREN	[mA]	0.40 / 0.75max (ACIN 100)	/ / 240V 60Hz, lo=100%, According to	DIEC60950-1 and DEN-AN)		
VC	OLTAGE[V]		5	12	24		
	URRENT[A]		10.0	4.3	2.1		
	NE REGULATION[20max	48max	96max		
LC	OAD REGULATION	[mV] *4	150max	150max	150max		
ы	IPPLE[mVp-p]		100max	120max	120max		
	ieecciiivb-bi	-10-0°C *1	140max	160max	160max		
	PPLE NOISE[mVp-p]	0 to +50°C *1	250max	250max	250max		
		-10-0°C *1	300max	300max	300max		
TEN	TEMPERATURE REGULATION[mV]	0 to +50℃	50max	120max	240max		
		-10 to +50℃	60max	150max	290max		
DF	DRIFT[mV] *2		20max	48max	96max		
ST	START-UP TIME[ms]		350typ (ACIN 100V, lo=100%)				
н	OLD-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		
0\	VERCURRENT PROT	ECTION	Works over 105% of rating	,			
ROTECTION	VERVOLTAGE PROTEC	CTION[V]	5.75 to 7.00	13.80 to 16.80	27.60 to 33.60		
	PERATING INDICA	TION	LED (Green)				
THERS RI	EMOTE SENSING		Not provided				
	EMOTE ON/OFF		Not provided				
	IPUT-OUTPUT		AC3,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (At Room Temperature)				
	IPUT-FG		AC2,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (At Room Temperature)				
0	UTPUT-FG		AC500V 1minute, Cutoff current = 25mA, DC500V 50M Ω min (At Room Temperature)				
	PERATING TEMP., HUMID. AND						
NVIRONMENT —	ORAGE TEMP., HUMID.AND	ALTITUDE	-20 to +75°C, 20 - 90%RH (Non condensing), 9,000m (30,000feet) max				
VI	IBRATION		10 - 55Hz, 19.6m/s ² (2G), 3minutes period, 60minutes each along X, Y and Z axis				
	IPACT		196.1m/s ² (20G), 11ms, once each X, Y and Z axis				
	GENCY APPROVAL		DEN-AN				
	ONDUCTED NOISE/	-	Complies with DEN-AN				
	ARMONIC ATTENU	ATOR *5	Complies with IEC61000-3	× /			
OTHERS –	ASE SIZE/WEIGHT			42×6.85 inches] (W×H×D) / 440g n	nax		
C	OOLING METHOD		Convection				

Measured by 20MHz oscilloscope or Ripple-Noise meter (Equivalent to KEISOKU-GIKEN: RM103). *1

*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 *4 Derating is required. Please contact us about dynamic load and input response.

*5 When two or more units are operating it may not comply with the IEC61000-3-2. Please contact us about another class.

* To meet the specifications. Do not operate over-loaded condition. Parallel operation is not possible.

*

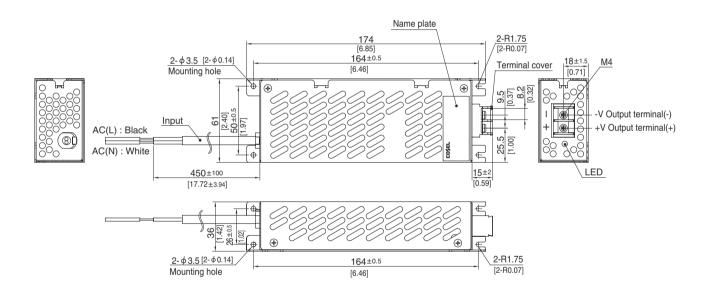
Derating is required when operated with chassis and cover.

Sound noise may be generated by power supply in case of pulse load.



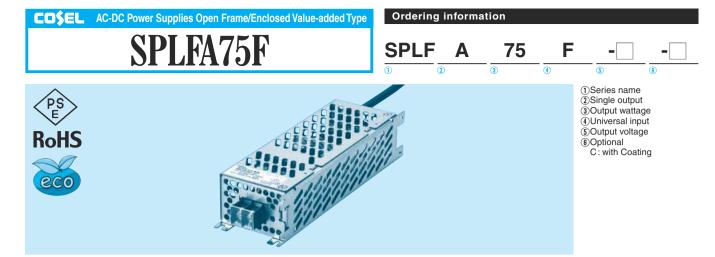


External view



% 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 X 2C



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

M	ODEL		SPLFA75F-5	SPLFA75F-12	SPLFA75F-24	
VC	OLTAGE[V]		AC85 - 264 1 ¢ (Refer to I	nstruction Manual 1.1 and 3.1) *3		
C1	URRENT[A]	ACIN 100V	1.00typ (lo=100%)			
	ACIN 200V		0.50typ (lo=100%)			
FF	FREQUENCY[Hz]		50 / 60 (47 - 63)			
E 6	EFFICIENCY[%]	ACIN 100V	75.0typ	80.0typ	81.5typ	
NPUT		ACIN 200V	77.0typ	82.0typ	83.5typ	
PO	POWER FACTOR (lo=100%)	ACIN 100V	0.97typ			
FU	WEN FACTON (10=100%)	ACIN 200V	0.90typ			
IN	INRUSH CURRENT[A]					
			30typ (Io=100%) (At cold start) (Ta=25℃)			
LE	EAKAGE CURREN	[mA]	0.40 / 0.75max (ACIN 100	V / 240V 60Hz, Io=100%, According to	o IEC60950-1 and DEN-AN)	
VC	OLTAGE[V]		5	12	24	
	URRENT[A]		15.0	6.3	3.2	
LI	NE REGULATION[nV] *4	20max	48max	96max	
LC	OAD REGULATION	[mV] *4	150max	150max	150max	
DI	IPPLE[mVp-p]	0 to +50℃*1	100max	120max	120max	
ni	ie e c c fill o b-b]	-10-0°C *1	140max	160max	160max	
	PPLE NOISE[mVp-p]	0 to +50℃*1	250max	250max	250max	
	RIPPLE NOISE[mvp-p]	-10-0°C *1	300max	300max	300max	
TEN	TEMPERATURE REGULATION[mV]	0 to +50℃	50max	120max	240max	
120		-10 to +50 ℃	60max	150max	290max	
DF	DRIFT[mV] *2		20max	48max	96max	
ST	START-UP TIME[ms]		350typ (ACIN 100V, Io=100%)			
Н	OLD-UP TIME[ms]		20typ (ACIN 100V, Io=100%)			
OL	OUTPUT VOLTAGE SETTING[V]		4.90 to 5.30	11.50 to 12.50	23.00 to 25.00	
-	VERCURRENT PROT			and recovers automatically		
ROTECTION	ERVOLTAGE PROTEC	CTION[V]	5.75 to 7.00	13.80 to 16.80	27.60 to 33.60	
	PERATING INDICA	TION	LED (Green)			
THERS RE	EMOTE SENSING		Not provided			
RE	EMOTE ON/OFF		Not provided			
IN	IPUT-OUTPUT		AC3,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (At Room Temperature)			
SOLATION IN	IPUT-FG		AC2,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (At Room Temperature)			
-	UTPUT-FG		AC500V 1minute, Cutoff current = 25mA, DC500V 50M Ω min (At Room Temperature)			
-	ERATING TEMP., HUMID. AND	-				
	ORAGE TEMP., HUMID. AND	ALTITUDE				
VI	BRATION		10 - 55Hz, 19.6m/s ² (2G), 3minutes period, 60minutes each along X, Y and Z axis			
	IPACT		196.1m/s ² (20G), 11ms, once each X, Y and Z axis			
	GENCY APPROVAL		DEN-AN			
	ONDUCTED NOISE/		Complies with DEN-AN			
	ARMONIC ATTENU	ATOR *5				
OTHERS -	ASE SIZE/WEIGHT			.65×7.56 inches] (W×H×D) / 540g n	nax	
00	COOLING METHOD		Convection			

Measured by 20MHz oscilloscope or Ripple-Noise meter (Equivalent to KEISOKU-GIKEN: RM103). *1

*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 *4

Derating is required. Please contact us about dynamic load and input response. *5 When two or more units are operating it may not comply with the IEC61000-3-2. Please contact us about another class.

*

*

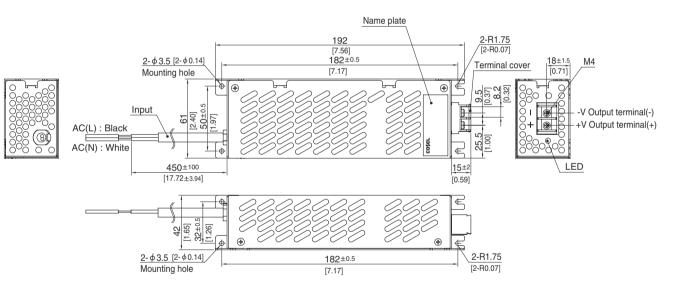
To meet the specifications. Do not operate over-loaded condition. Parallel operation is not possible. Derating is required when operated with chassis and cover.

Sound noise may be generated by power supply in case of pulse load.

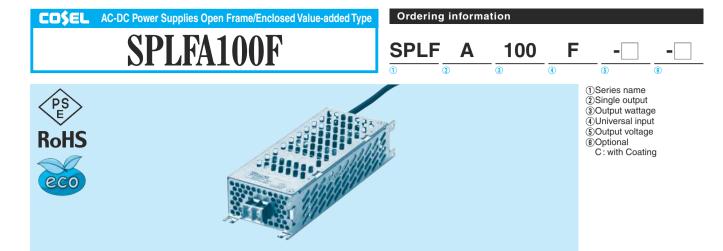




External view



- % 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 X2C



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

1	MODEL		SPLFA100F-12	SPLFA100F-24
1	VOLTAGE[V]		AC85 - 264 1 ¢ (Refer to Instruction Manual 1.1 and 3.1) *3	
	CURRENT[A]	ACIN 100V	/ 1.3typ (lo=100%)	
	ACIN 20		/ 0.7typ (lo=100%)	
1	FREQUENCY[Hz]		50 / 60 (47 - 63)	
	EFFICIENCY[%]	ACIN 100V	80.5typ	83.0typ
NPUT		ACIN 200V	83.5typ	86.0typ
,	POWER FACTOR (lo=100%)	ACIN 100V	0.97typ	
'	FOWER FACTOR (10=100%)	ACIN 200V	0.90typ	
	INRUSH CURRENT[A]		15typ (Io=100%) (At cold start) (Ta=25℃)	
'			30typ (Io=100%) (At cold start) (Ta=25℃)	
1	LEAKAGE CURREN	T[mA]	0.40 / 0.75max (ACIN 100V / 240V 60Hz, lo=100%, A	According to IEC60950-1 and DEN-AN)
`	VOLTAGE[V]		12	24
(CURRENT[A]		8.5	4.3
Ī	LINE REGULATION[mV] *4	48max	96max
I	LOAD REGULATION	[mV] *4	150max	150max
	RIPPLE[mVp-p]	0 to +50℃*1	120max	120max
	hippecilling-bi	-10-0°C *1	160max	160max
		0 to +50℃*1	250max	250max
	RIPPLE NOISE[mVp-p]	-10-0°C *1	300max	300max
,	TEMPERATURE REGULATION[mV]	0 to +50℃	120max	240max
Ľ	TEMPERATURE REGULATION[MV]	-10 to +50℃	150max	290max
ſ	DRIFT[mV] *2		48max	96max
5	START-UP TIME[ms]		350typ (ACIN 100V, Io=100%)	
1	HOLD-UP TIME[ms]		20typ (ACIN 100V, lo=100%)	
(OUTPUT VOLTAGE SET	fing[V]	11.50 to 12.50	23.00 to 25.00
(OVERCURRENT PROT	ECTION	Works over 105% of rating and recovers automatically	
ROTECTION	OVERVOLTAGE PROTEC	CTION[V]	13.80 to 16.80	27.60 to 33.60
	OPERATING INDICA	TION	LED (Green)	
THERS I	REMOTE SENSING		Not provided	
1	REMOTE ON/OFF		Not provided	
I	INPUT-OUTPUT		AC3,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (At Room Temperature)	
SOLATION	INPUT-FG		AC2,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (At Room Temperature)	
	OUTPUT-FG		AC500V 1minute, Cutoff current = 25mA, DC500V 50M Ω min (At Room Temperature)	
(OPERATING TEMP., HUMID. AND	ALTITUDE		
	STORAGE TEMP., HUMID.AND	ALTITUDE	-20 to +75°C, 20 - 90%RH (Non condensing), 9,000m (30,000feet) max	
	VIBRATION		10 - 55Hz, 19.6m/s ² (2G), 3minutes period, 60minutes each along X, Y and Z axis	
	IMPACT		196.1m/s ² (20G), 11ms, once each X, Y and Z axis	
	AGENCY APPROVAL	-	DEN-AN	
. .	CONDUCTED NOISE/		Complies with DEN-AN	
	HARMONIC ATTENU	-	Complies with IEC61000-3-2 (class A)	
OTHERS –	CASE SIZE/WEIGHT		73×42×197mm [2.87×1.65×7.76 inches] (W×H×	D) / 670g max
	COOLING METHOD		Convection	

Measured by 20MHz oscilloscope or Ripple-Noise meter (Equivalent to KEISOKU-GIKEN: RM103). *1

*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 *4

Derating is required. Please contact us about dynamic load and input response. *5 When two or more units are operating it may not comply with the IEC61000-3-2. Please contact us about another class.

*

To meet the specifications. Do not operate over-loaded condition. *

Parallel operation is not possible.

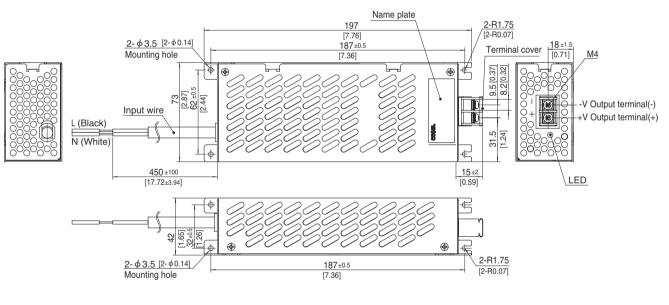
Derating is required when operated with chassis and cover. Sound noise may be generated by power supply in case of pulse load.

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Block diagram

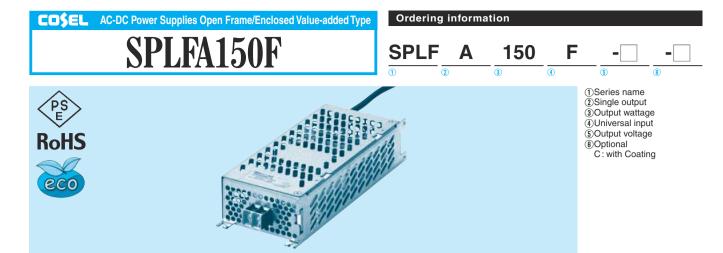


External view



% Tolerance : ±1 [±0.04]

- % Weight : 670g max
- ※ Dimensions in mm, []=inches
- * Chassis material : Galvanized Steel board
- % Screw tightening torque : M4 : 1.6N \cdot m (16.9kgf \cdot cm) max
- % Input wire : VCTF 0.75sq × 2C



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

IV	MODEL		SPLFA150F-12	SPLFA150F-24	
V	VOLTAGE[V]		AC85 - 264 1 ¢ (Refer to Instruction Manual 1.1 and 3.1) *3		
		ACIN 100V	/ 2.0typ (lo=100%)		
	ACIN 200V		/ 1.0typ (lo=100%)		
F	FREQUENCY[Hz]		50 / 60 (47 - 63)		
	EFFICIENCY[%]	ACIN 100V	81.0typ	84.0typ	
NPUT 5		ACIN 200V	84.0typ	86.5typ	
D	OWER FACTOR (lo=100%)	ACIN 100V	0.97typ		
F	OWEN FACTOR (10=100%)	ACIN 200V			
	INRUSH CURRENT[A]		15typ (Io=100%) (At cold start) (Ta=25℃)		
11			30typ (lo=100%) (At cold start) (Ta=25℃)		
L	EAKAGE CURREN	T[mA]	0.40 / 0.75max (ACIN 100V / 240V 60Hz, lo=100	%, According to IEC60950-1 and DEN-AN)	
V	/OLTAGE[V]		12	24	
C	CURRENT[A]		12.5	6.3	
L	INE REGULATION[mV] *4	48max	96max	
L	OAD REGULATION	[mV] *4	150max	150max	
	RIPPLE[mVp-p]	0 to +50℃*1	120max	120max	
	RIPPLE[mvp-p]	-10-0°C *1	160max	160max	
	RIPPLE NOISE[mVp-p]	0 to +50℃*1	250max	250max	
		-10-0°C *1	300max	300max	
т	TEMPERATURE REGULATION[mV]	0 to +50℃	120max	240max	
		-10 to +50℃	150max	290max	
D	DRIFT[mV] *2		48max	96max	
S	START-UP TIME[ms]		350typ (ACIN 100V, Io=100%)		
н	HOLD-UP TIME[ms]		20typ (ACIN 100V, lo=100%)		
0	DUTPUT VOLTAGE SET	fing[v]	11.50 to 12.50	23.00 to 25.00	
0	OVERCURRENT PROT	ECTION	Works over 105% of rating and recovers automatically		
	OVERVOLTAGE PROTEC	CTION[V]	13.80 to 16.80	27.60 to 33.60	
IRCUIT AND C	OPERATING INDICA	TION	LED (Green)		
THERS	REMOTE SENSING		Not provided		
B	REMOTE ON/OFF		Not provided		
11	NPUT-OUTPUT		AC3,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (At Room Temperature)		
SOLATION I	NPUT-FG		AC2,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (At Room Temperature)		
C	OUTPUT-FG		AC500V 1minute, Cutoff current = 25mA, DC500V 50M Ω min (At Room Temperature)		
0	PERATING TEMP., HUMID. AND	ALTITUDE			
	STORAGE TEMP., HUMID.AND	ALTITUDE	-20 to +75°C, 20 - 90%RH (Non condensing), 9,000m (30,000feet) max		
V	/IBRATION		10 - 55Hz, 19.6m/s ² (2G), 3minutes period, 60minutes each along X, Y and Z axis		
11	MPACT		196.1m/s ² (20G), 11ms, once each X, Y and Z axis		
	AGENCY APPROVAL		DEN-AN		
	CONDUCTED NOISE/	-	Complies with DEN-AN		
	HARMONIC ATTENU		Complies with IEC61000-3-2 (class A)		
OTHERS –	CASE SIZE/WEIGHT		$86\times47\times202mm$ [3.39 $\times1.85\times7.95$ inches] (W \times	H×D) / 850g max	
	COOLING METHOD		Convection		

Measured by 20MHz oscilloscope or Ripple-Noise meter (Equivalent to KEISOKU-GIKEN: RM103). *1

*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 *4

Derating is required. Please contact us about dynamic load and input response. When two or more units are operating it may not comply with the IEC61000-3-2. Please contact us about another class. *5

* 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.

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Block diagram



External view

