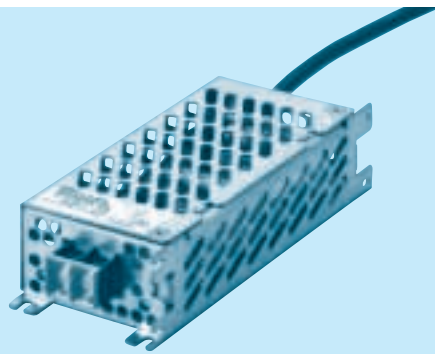


# SPLFA30F

SPLF A 30 F - □ - □  
 ① ② ③ ④ ⑤ ⑥



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

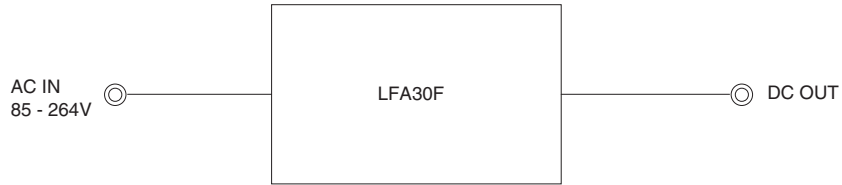
| MODEL                 | SPLFA30F-5 | SPLFA30F-12 | SPLFA30F-24 |
|-----------------------|------------|-------------|-------------|
| MAX OUTPUT WATTAGE[W] | 30.0       | 30.0        | 31.2        |
| DC OUTPUT             | 5V 6A      | 12V 2.5A    | 24V 1.3A    |

## SPECIFICATIONS

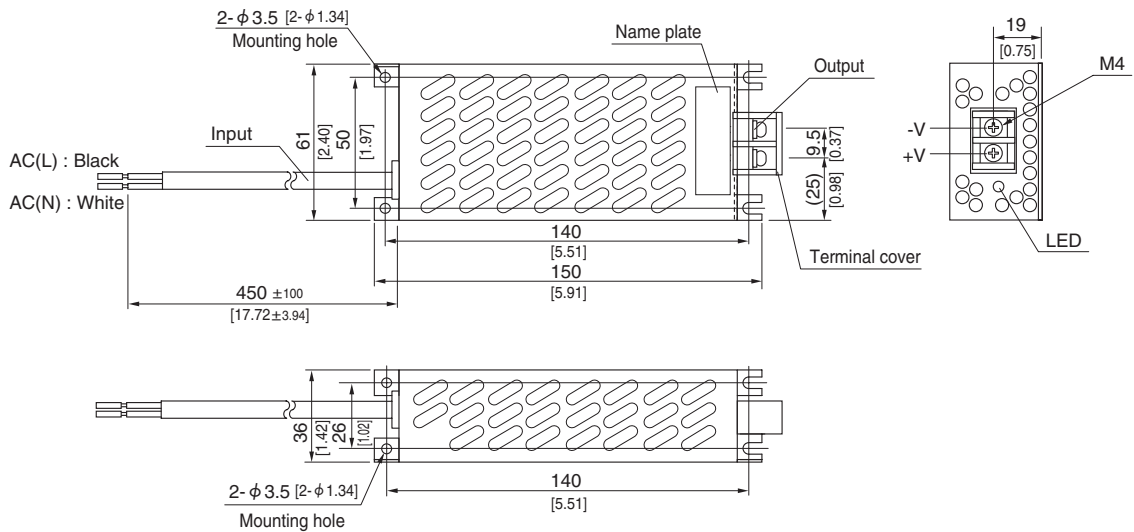
|                               | MODEL   | SPLFA30F-5   | SPLFA30F-12                               | SPLFA30F-24    |         |
|-------------------------------|---|--|---|----------------|---------|
| INPUT                         | VOLTAGE[V]  | AC85 - 264 1 φ (Refer to Instruction Manual 1.1 and 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°C) |                |         |
| ACIN 200V                     |   | 30typ (Io=100%) (At cold start) (Ta=25°C)  |   |                |         |
| 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°C *1  | 100max                                    | 120max         | 120max  |
|                               |   | -10 - 0°C *1   | 140max                                    | 160max         | 160max  |
|                               | RIPPLE NOISE[mVp-p]   | 0 to +50°C *1  | 250max                                    | 250max         | 250max  |
|                               |   | -10 - 0°C *1   | 300max                                    | 300max         | 300max  |
|                               | TEMPERATURE REGULATION[mV]  | 0 to +50°C   | 50max                                     | 120max         | 240max  |
|                               |   | -10 to +50°C   | 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°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 <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  | 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°C, 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.  
 \* 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



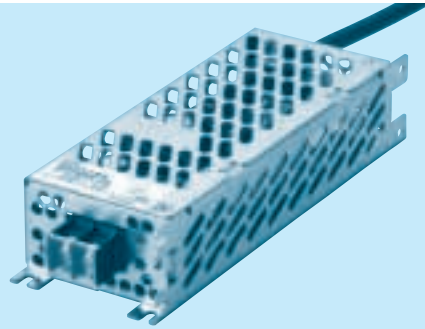
External view



- ※ Tolerance :  $\pm 1$  [ $\pm 0.04$ ]
- ※ 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 X2C

# SPLFA50F

SPLF A 50 F - □ - □  
 ① ② ③ ④ ⑤ ⑥



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

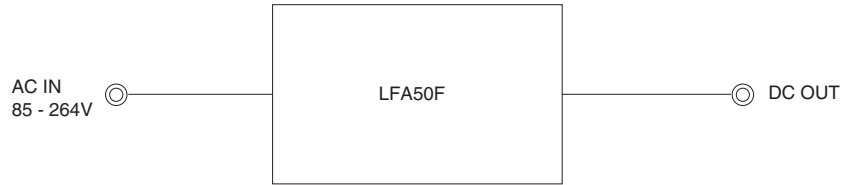
| MODEL                 | SPLFA50F-5 | SPLFA50F-12 | SPLFA50F-24 |
|-----------------------|------------|-------------|-------------|
| MAX OUTPUT WATTAGE[W] | 50         | 51.6        | 50.4        |
| DC OUTPUT             | 5V 10A     | 12V 4.3A    | 24V 2.1A    |

## SPECIFICATIONS

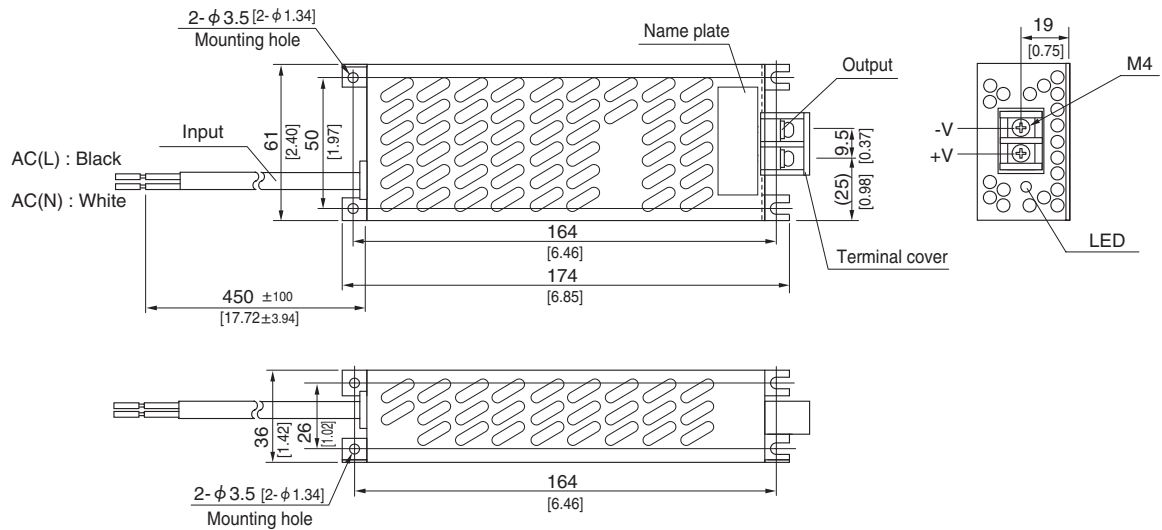
|                               | MODEL   | SPLFA50F-5  | SPLFA50F-12       | SPLFA50F-24    |         |
|-------------------------------|---|---|-------------------|----------------|---------|
| INPUT                         | VOLTAGE[V]  | AC85 - 264 1 φ (Refer to Instruction Manual 1.1 and 3.1) *3                                     |                   |                |         |
|                               | 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°C)   |                   |                |         |
|                               | ACIN 200V   | 30typ (Io=100%) (At cold start) (Ta=25°C)   |                   |                |         |
| 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°C *1   | 100max            | 120max         | 120max  |
|                               |   | -10 - 0°C *1  | 140max            | 160max         | 160max  |
|                               | RIPPLE NOISE[mVp-p]   | 0 to +50°C *1   | 250max            | 250max         | 250max  |
|                               |   | -10 - 0°C *1  | 300max            | 300max         | 300max  |
|                               | TEMPERATURE REGULATION[mV]  | 0 to +50°C  | 50max             | 120max         | 240max  |
|                               |   | -10 to +50°C  | 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°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 <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  | 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 X 36 X 174mm [2.40 X 1.42 X 6.85 inches] (W X H X 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°C, 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



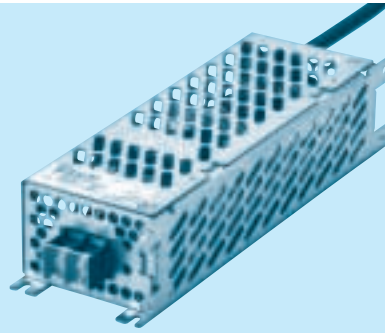
## External view



- ※ Tolerance :  $\pm 1$  [ $\pm 0.04$ ]
- ※ 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 X2C

# SPLFA75F

SPLF A 75 F - □ - □  
 ① ② ③ ④ ⑤ ⑥



- ① Series name
- ② Single output
- ③ Output wattage
- ④ Universal input
- ⑤ Output voltage
- ⑥ Optional
- 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

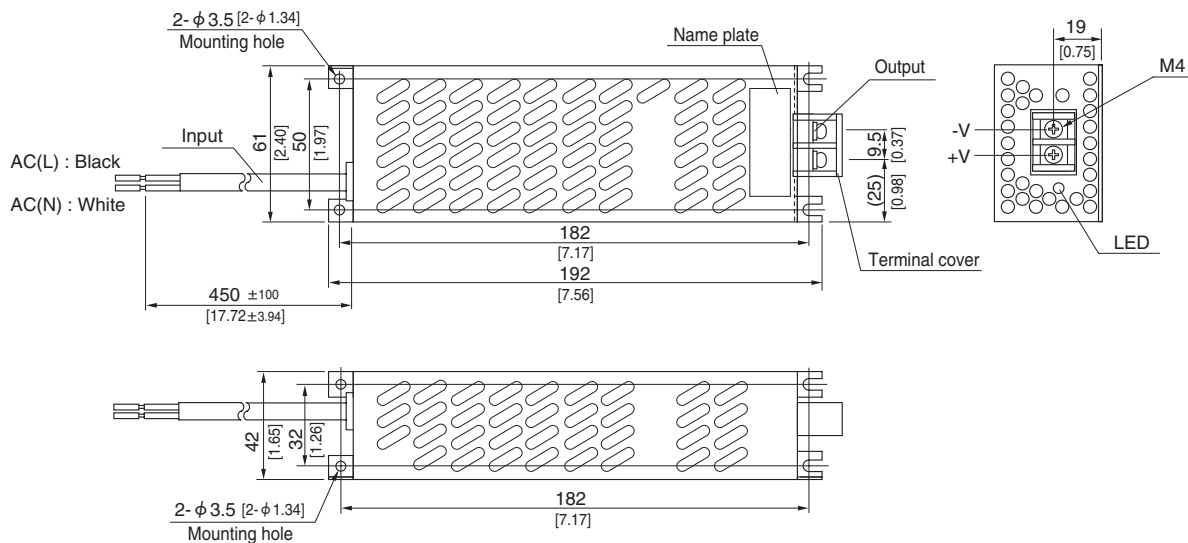
|                               | MODEL   | SPLFA75F-5  | SPLFA75F-12       | SPLFA75F-24    |         |
|-------------------------------|---|---|-------------------|----------------|---------|
| INPUT                         | VOLTAGE[V]  | AC85 - 264 1 φ (Refer to Instruction Manual 1.1 and 3.1) *3                                     |                   |                |         |
|                               | 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°C)   |                   |                |         |
|                               | ACIN 200V   | 30typ (Io=100%) (At cold start) (Ta=25°C)   |                   |                |         |
| 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°C *1   | 100max            | 120max         | 120max  |
|                               |   | -10 - 0°C *1  | 140max            | 160max         | 160max  |
|                               | RIPPLE NOISE[mVp-p]   | 0 to +50°C *1   | 250max            | 250max         | 250max  |
|                               |   | -10 - 0°C *1  | 300max            | 300max         | 300max  |
|                               | TEMPERATURE REGULATION[mV]  | 0 to +50°C  | 50max             | 120max         | 240max  |
|                               |   | -10 to +50°C  | 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°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 <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  | 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 X 42 X 192mm [2.40 X 1.65 X 7.56 inches] (W X H X 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°C, 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



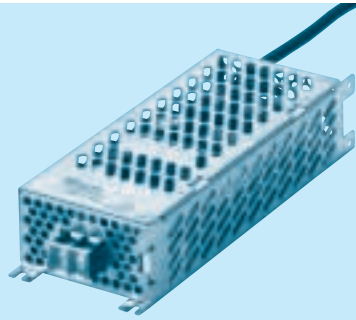
External view



- ※ Tolerance :  $\pm 1$  [ $\pm 0.04$ ]
- ※ 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

# SPLFA100F

SPLF A 100 F -□ -□  
 ① ② ③ ④ ⑤ ⑥



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

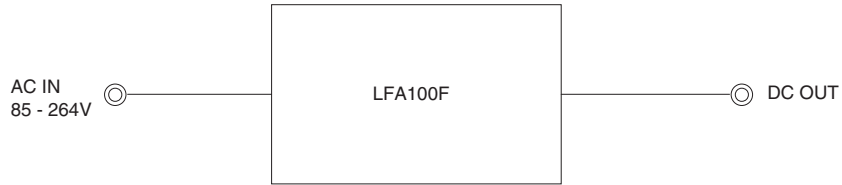
|                       |              |              |
|-----------------------|--------------|--------------|
| MODEL                 | SPLFA100F-12 | SPLFA100F-24 |
| MAX OUTPUT WATTAGE[W] | 102.0        | 103.2        |
| DC OUTPUT             | 12V 8.5A     | 24V 4.3A     |

## SPECIFICATIONS

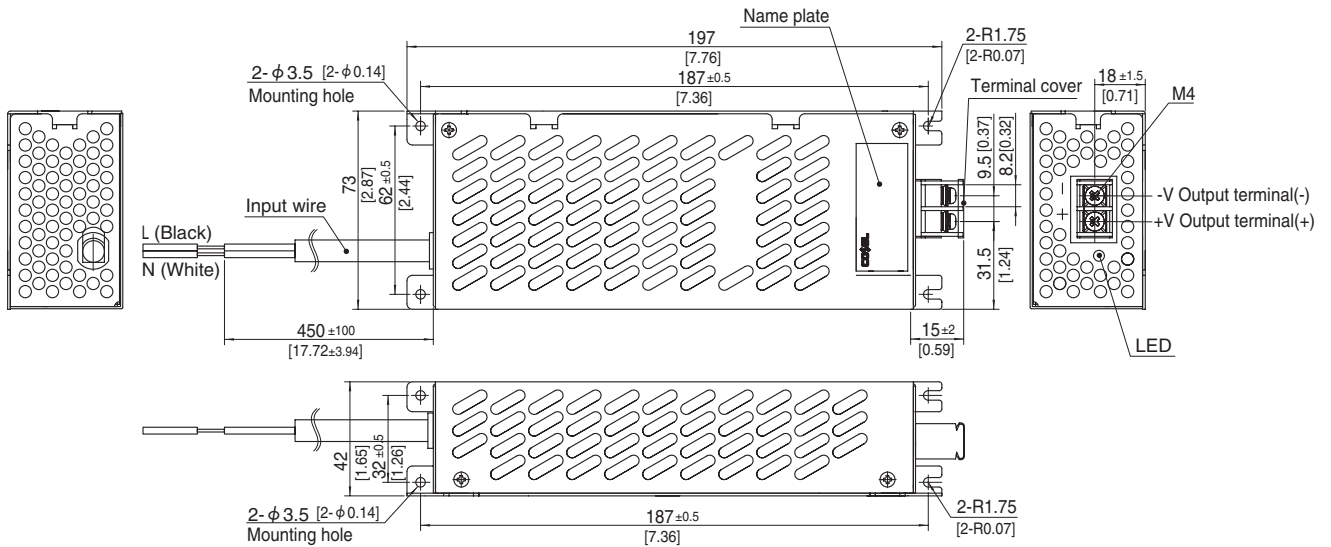
|                               | MODEL   | SPLFA100F-12  | SPLFA100F-24     |         |
|-------------------------------|---|---|------------------|---------|
| INPUT                         | VOLTAGE[V]  | AC85 - 264 1 φ (Refer to Instruction Manual 1.1 and 3.1) *3                                     |                  |         |
|                               | 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°C)   |                  |         |
|                               | ACIN 200V   | 30typ (Io=100%) (At cold start) (Ta=25°C)   |                  |         |
| 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°C *1   | 120max           | 120max  |
|                               |   | -10 -0°C *1   | 160max           | 160max  |
|                               | RIPPLE NOISE[mVp-p]   | 0 to +50°C *1   | 250max           | 250max  |
|                               |   | -10 -0°C *1   | 300max           | 300max  |
|                               | TEMPERATURE REGULATION[mV]  | 0 to +50°C  | 120max           | 240max  |
|                               |   | -10 to +50°C  | 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  |                  |         |
| ISOLATION                     | REMOTE ON/OFF   | Not provided  |                  |         |
|                               | 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)                  |                  |         |
| ENVIRONMENT                   | OUTPUT-FG   | AC500V 1minute, Cutoff current = 25mA, DC500V 50MΩ min (At Room Temperature)                    |                  |         |
|                               | OPERATING TEMP., HUMID. AND ALTITUDE  | -10 to +50°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 <sup>2</sup> (2G), 3minutes period, 60minutes each along X, Y and Z axis     |                  |         |
| SAFETY AND NOISE REGULATIONS  | IMPACT  | 196.1m/s <sup>2</sup> (20G), 11ms, once each X, Y and Z axis                                    |                  |         |
|                               | AGENCY APPROVALS  | DEN-AN  |                  |         |
|                               | CONDUCTED NOISE/POWER   | Complies with DEN-AN  |                  |         |
| OTHERS                        | HARMONIC ATTENUATOR   | Complies with IEC61000-3-2 (Please contact us for the details of class C.)                      |                  |         |
|                               | CASE SIZE/WEIGHT  | 73 X 42 X 197mm [2.87 X 1.65 X 7.76 inches] (W X H X 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°C, 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

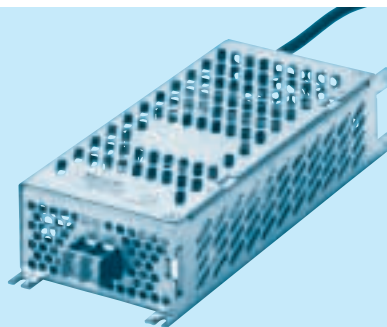


- ※ Tolerance : ±1 [±0.04]
- ※ Weight : 670g max
- ※ Dimensions in mm, [ ]=inches
- ※ Chassis material : Galvanized Steel board
- ※ Screw tightening torque : M4 : 1.6N · m (16.9kgf · cm) max
- ※ Input wire : VCTF 0.75sq X 2C



# SPLFA150F

SPLF A 150 F -□ -□  
 ① ② ③ ④ ⑤ ⑥



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

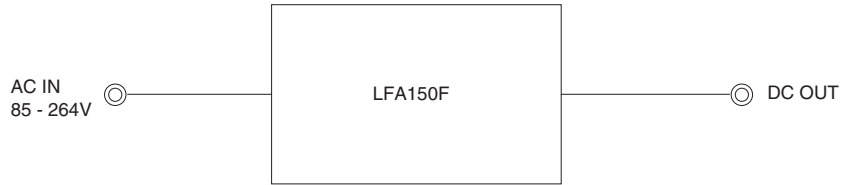
|                       |              |              |
|-----------------------|--------------|--------------|
| MODEL                 | SPLFA150F-12 | SPLFA150F-24 |
| MAX OUTPUT WATTAGE[W] | 150          | 151.2        |
| DC OUTPUT             | 12V 12.5A    | 24V 6.3A     |

## SPECIFICATIONS

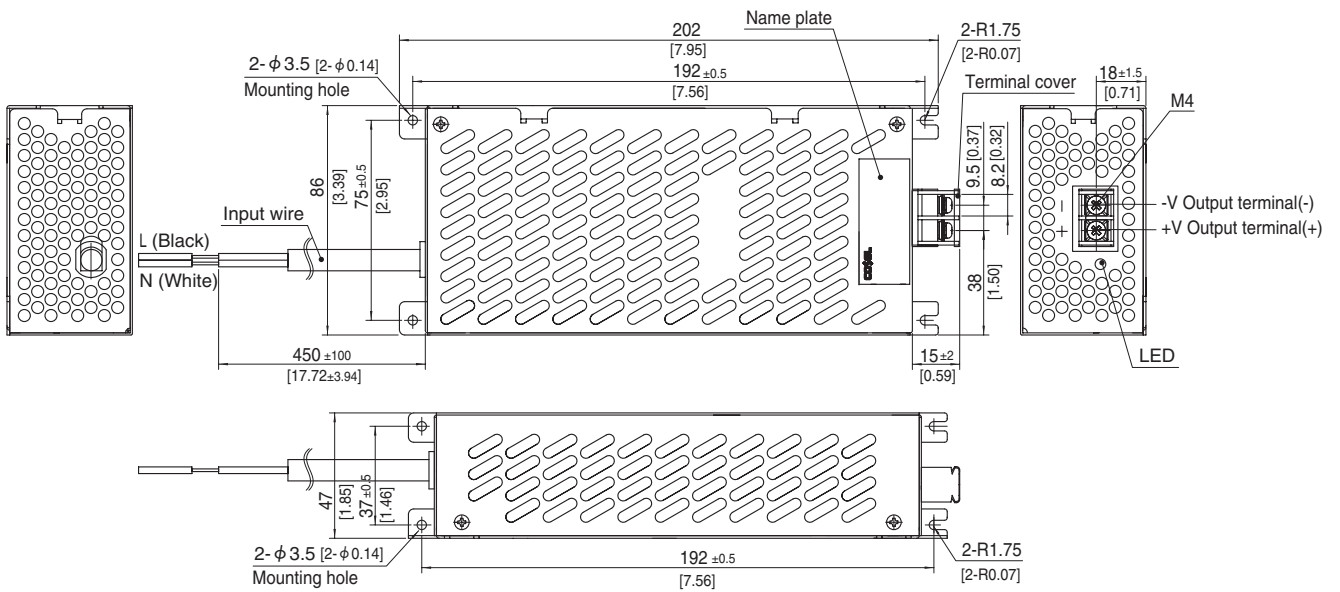
|                               | MODEL   | SPLFA150F-12  | SPLFA150F-24     |         |
|-------------------------------|---|---|------------------|---------|
| INPUT                         | VOLTAGE[V]  | AC85 - 264 1 φ (Refer to Instruction Manual 1.1 and 3.1) *3                                     |                  |         |
|                               | 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°C)   |                  |         |
|                               | ACIN 200V   | 30typ (Io=100%) (At cold start) (Ta=25°C)   |                  |         |
| 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°C *1   | 120max           | 120max  |
|                               |   | -10 - 0°C *1  | 160max           | 160max  |
|                               | RIPPLE NOISE[mVp-p]   | 0 to +50°C *1   | 250max           | 250max  |
|                               |   | -10 - 0°C *1  | 300max           | 300max  |
|                               | TEMPERATURE REGULATION[mV]  | 0 to +50°C  | 120max           | 240max  |
|                               |   | -10 to +50°C  | 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°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 <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  | 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°C, 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 X 2C

# Mouser Electronics

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[SPLFA30F-12-C](#) [SPLFA30F-5](#) [SPLFA50F-12-C](#) [SPLFA30F-24-C](#) [SPLFA75F-5](#) [SPLFA50F-24-C](#) [SPLFA50F-12](#)  
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«FORSTAR» (основан в 1998 г.)

ВЧ соединители, коаксиальные кабели, кабельные сборки и микроволновые компоненты:

(Применяются в телекоммуникациях гражданского и специального назначения, в средствах связи, РЛС, а так же военной, авиационной и аэрокосмической отраслях промышленности).



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