



Features :

- . Universal AC input / Full range
- . PFC >0.93 at 230 VAC
- . Protections : short circuit / over load / over voltage
- . Fix switching frequency at 134KHz
- . Thin profile : 33mm (metal case) or 31mm (pcb only)
- . Remote on/off control (option)
- . Free air cooling convection
- . Approvals : UL / CUL / TUV / CB / CE
- . 100% full load burn-in test

3 years warranty



Model	SP75 3.3	SP75 5	SP75 7.5	SP75 12	SP75 13.5	SP75 15	SP75 24	SP75 27	SP75 48
DC output voltage	3.3V	5V	7.5V	12V	13.5V	15V	24V	27V	48V
Output voltage tolerance	+2%	+2%	+2%	+2%	+2%	+2%	+1%	+1%	+1%
Output rated current	15A	15A	10A	6.3A	5.6A	5A	3.2A	2.8A	1.6A
Output current range	0~15	0~15	0~10	0~6.3	0~5.6	0~5	0~3.2	0~2.8	0~1.6
Ripple & noise	80mV	80mV	80mV	80mV	80mV	80mV	100mV	100mV	100mV
Line regulation	+0.5%	+0.5%	+0.5%	+0.5%	+0.5%	+0.5%	+0.5%	+0.5%	+0.5%
Load regulation	+1%	+1%	+1%	+0.5%	+0.5%	+0.5%	+0.5%	+0.5%	+0.5%
DC output power	49.5W	75W	75W	75.6W	75.6W	75W	76.8W	75.6W	76.8W
Efficiency	68%	72%	74%	77%	78%	79%	80%	80%	80%
DC voltage adjustment	10-5%								
Input voltage range	85~264VAC / ; 47~63Hz ; 120~370 VDC								
AC current	1.3A / 115 V ; 0.7A / 230 V								
Power factor	PF>0.93/230VAC ; PF>0.96/115VAC								
Remote control (option)	CN3 : 3V-15VDC power on, <3VDC power off								
Inrush current	Cold start 40A/230VAC								
Leakage current	<2mA/240VAC								
Over-load protection	105~150% Type : Constant current limiting Reset : auto-recovery								
Over-voltage protection	110~135% Type : shutdown Reset :re-power on								
Temperature coefficient	+0.05% /°C (0°~50°C)								
Set-up, Rise, Hold-up time	600ms, 60ms, 20ms								
Vibration	10~500Hz, 2G 10min./1cycle, period for 60min. Each axes								
Withstand voltage	I/P-O/P: 3KVACVAC I/P-FG: 1.5 KVAC ; O/P-FG : 0.5 KVAC								
Isolation resistance	I/P-O/P, I/P-FG, O/P-FG : 500 VDC /100MΩ								
Working temp. & humidity	-10°C~+60°C (refer to output derating curve) 20~90% R.H.								
Storage temp. & humidity	-20°C~+85°C, 10%~95% R.H. (non-condensing)								
Dimensions	179 x 97x 33 mm (Length x Width x Height) case 916A or 173 x 91 x 31 (pcb only)								
Weight	550 gr								
Safety standards	UL1950, TUV EN60950 approved								
EMC standards	CISPR22 (EN55022) ClassB ; EN61000-4-2,3,4,5,6,8,11 ; EN50204 ; ENV61000-3-2,-3								
Notes:	-All parameters are specified at 230VAC input, rated load, 25°C & 70% R.H. ambient. - Tolerance include setup tolerance, line regulation, load regulation. - Ripple & Noise are measured at 20MHz by using a 12" twisted pair terminated with a 0.1yF & 47uF capacitor. - Line regulation is measured from low line to high line at rated load. - Refer to output derating curve vs input voltage								



SP-75 SERIES

BLOCK DIAGRAM

PFC freq: 67KHz
PWM freq: 134KHz

OUTPUT DERATING VS T_a

AMBIENT TEMP. (°C)

OUTPUT DERATING VS INPUT VOLTAGE

INPUT VOLTAGE (V) 60Hz

DIMENSION (mm)

- ☒ CASE 920A
- ☒ TERMINAL PIN NO. ASSIGNMENT
- ☒ CN3: MOLEX 5048-02 COMPATIBLE REMOTE CONTROL (OPTION)
- ☒ PIN 1 : DC OUTPUT +V
- ☒ PIN 2 : DC OUTPUT -V
- ☒ PIN 3 : FG ⊥
- ☒ PIN 4,5 : AC INPUT
- ☒ MATING CONNECTORS
- ☒ CN3 MATING CONNECTOR TYPE MOLEX 5051 OR 5102 SERIES OR EQUIVALENT WITH MOLEX 2759 AND 5103 OR QUIVALENT GRIMP TERMINALS.



SP-75P SERIES

BLOCK DIAGRAM

PFC fosc : 67KHz
PWM fosc : 134KHz

OUTPUT DERATING VS T_a

OUTPUT DERATING VS INPUT VOLTAGE

DIMENSION (mm)

- ☒ **TERMINAL PIN NO. ASSIGNMENT**
 - ☒ PIN 1 : DC OUTPUT +V
 - ☒ PIN 2 : DC OUTPUT -V
 - ☒ PIN 3 : FG \perp
 - ☒ PIN 4,5 : AC INPUT
- ☒ **TERMINAL PIN NO. ASSIGNMENT**
 - ☒ CN3 : REMOTE CONTROL (OPTION)
 - ☒ MOLEX 5046-02 COMPATIBLE
- ☒ **MATING CONNECTORS**
 - ☒ CN3 MATING CONNECTOR TYPE
 - ☒ MOLEX 5051 OR 5102 SERIES OR EQUIVALENT WITH MOLEX 2759 AND 5103 OR EQUIVALENT CRIMP TERMINALS.