

**Professionally approved products.**

## Datasheet

# RS 75W, 1 Output, Embedded Switch Mode Power Supply (SMPS), 5V dc, 15A

RS Stock number 721-1746



### ■ Features :

- Universal AC input / Full range
- Built-in active PFC function, PF>0.95
- High efficiency up to 90%
- **Optional L-Bracket and cover (ELP-75-x-C, x=3.3,5,12,15,24,36,48)**
- Protections: Short circuit / Overload / Over voltage
- Cooling by free air convection
- 1U low profile
- LED indicator for power on
- No load power consumption<0.5W

# Professionally approved products.

## Datasheet

MODEL		ELP-75-3.3	ELP-75-5	ELP-75-12	ELP-75-15	ELP-75-24	ELP-75-36	ELP-75-48
OUTPUT	DC VOLTAGE	3.3V	5V	12V	15V	24V	36V	48V
	RATED CURRENT	15A	15A	6.25A	5A	3.15A	2.1A	1.6A
	CURRENT RANGE	0 ~ 15A	0 ~ 15A	0 ~ 6.25A	0 ~ 5A	0 ~ 3.15A	0 ~ 2.1A	0 ~ 1.6A
	RATED POWER	49.5W	75W	75W	75W	75.6W	75.6W	76.8W
	RIPPLE & NOISE (max.) Note.2	80mVp-p	80mVp-p	120mVp-p	150mVp-p	240mVp-p	280mVp-p	300mVp-p
	VOLTAGE ADJ. RANGE	3 ~ 3.6V	4.75 ~ 5.5V	10.8 ~ 13.2V	13.5 ~ 16.5V	21.6 ~ 26.4V	32.4 ~ 39.6V	43.2 ~ 52.8V
	VOLTAGE TOLERANCE Note.3	±3.0%	±2.0%	±2.0%	±2.0%	±1.0%	±1.0%	±1.0%
	LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
	LOAD REGULATION	±2.0%	±1.5%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%
	SETUP, RISE TIME	2500ms, 50ms/230VAC    2500ms, 50ms/115VAC at full load						
HOLD UP TIME (Typ.)	20ms/230VAC    20ms/115VAC at full load							
INPUT	VOLTAGE RANGE Note.6	90 ~ 264VAC    127 ~ 370VDC						
	FREQUENCY RANGE	47 ~ 63Hz						
	POWER FACTOR (Typ.) Note.5	PF>0.95/230VAC		PF>0.98/115VAC at full load				
	EFFICIENCY (Typ.)	80%	82%	89%	90%	90%	90%	90%
	AC CURRENT (Typ.)	1.8A/115VAC    1A/230VAC						
	INRUSH CURRENT (Typ.)	COLD START 60A/230VAC						
	LEAKAGE CURRENT	<1mA/240VAC						
PROTECTION	OVER LOAD	105 ~ 150% rated output power Protection type: Hiccup mode, recovers automatically after fault condition is removed						
	OVER VOLTAGE	3.7 ~ 4.45V	5.6 ~ 6.75V	13.8 ~ 16.2V	17.25 ~ 20.25V	27.6 ~ 32.4V	39.7 ~ 46.8V	53.3 ~ 64.8V
ENVIRONMENT	WORKING TEMP.	-30 ~ +70°C (Refer to output load derating curve)						
	WORKING HUMIDITY	20 ~ 90% RH non-condensing						
	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH						
	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 50°C)						
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes						
SAFETY & EMC (Note 4)	SAFETY STANDARDS	UL60950-1, TUV EN60950-1 approved						
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC    I/P-FG:1.5KVAC    O/P-FG:0.5KVAC						
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 500VDC / 25°C / 70% RH						
	EMC CONDUCTION & RADIATION	Compliance to EN55022 (CISPR22) Class B						
	HARMONIC CURRENT	Compliance to EN61000-3-2,-3						
EMS IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, EN55024, heavy industry level, criteria A							
OTHERS	MTBF	345.3Khrs min.    MIL-HDBK-217F (25°C)						
	DIMENSION	PCB:175*60*27mm (L*W*H) with optional CASE:195*68.5*33mm (L*W*H)						
	PACKING	PCB:0.25Kg; 48pcs/13Kg/0.85CUFT with optional CASE:0.54Kg; 25pcs/14.5Kg/0.59CUFT						

