

**PRODUCT SPECIFICATION**

**MODEL : SWITCH MODE POWER SUPPLY - LCS35 / UT\*\*\***

	MODEL :		SPECIFICATION				V
	NOTE		LCS35-5/UT	LCS35-12/UT	LCS35-24/UT		
Input Characteristics							
Input Voltage Range		Vin	AC : 85~132Vac / 170 ~ 264Vac (MANUAL SELECTABLE)				
Input Voltage Frequency		freq	47 ~ 63				Hz
Input Current		Iin	(max) 0.8A @ 115Vac, 0.45A @ 230Vac				
Inrush Current			(max) 18A @ 115Vac, 36A @ 230Vac at cold start				
Output Characteristics							
Rated Output Voltage		Vout	5	12	15	24	V
Output Current - Rated	1	Io(rated)	7.0	3.0	2.4	1.5	A
Output Current - Min		Io(min)	0	0	0	0	A
Output Power	1	Pout	35	36	36	36	W
Adjustable Output Range			+/-10%	+/-10%	+/-10%	+/-10%	
Ripple & Noise	3		75	100	100	100	mVpp
Load Regulation	5		±1.0	±0.5	±0.5	±0.5	%
Line Regulation	4		±0.5	±0.5	±0.5	±0.5	%
Efficiency	1		73	75	78	80	%
Temperature drift			<0.03%/°C (-10~50°C)				%
Rise-up time			300ms max, 100%Load @230Vac				ms
Hold-up time			30ms min, 100%Load @230Vac				ms
Protection							
Over Current Protection		OCP	At Load>120% 115Vac/230Vac, Auto recovery				
Over Voltage Protection		OVP	Zener clamping at Vo>110%, Non auto recovery				
Short Circuit Protection			Short circuit protection available. Avoid short circuit >30seconds				
Environmental Specification							
EMC STANDARDS	7	Ta	Conforms to EN55022 VCCI,CISPR22 Class A (Conducted & Radiated); IEC-61000-4-2, 61000-4-4, 61000-4-5, 61000-4-11				
Operating Temperature			-10°C@80%, 0 ~ 50°C@100%, 60°C@60%Load				
Operating Humidity			20% ~ 90%RH				
Storage Temperature			-20 ~ 85°C				
Storage Humidity			10%~ 95%RH				
Cooling			Convection cooling				
Vibration			10~55Hz, 2G 1min/cycle, period of 60min, each x,y&z axis				
Safety Standards			Certified to IEC60950 (CB Certification) (LCS35-15 pending) UL (file # 204980) & TUV (file # R 50058679)				
WITHSTAND VOLTAGE			I/P--O/P:3KVAC I/P--FG:2.5KVAC O/P--FG:0.5KVAC 1minute				
INSULATION RESISTANCE			I/P--O/P, I/P--FG, O/P--FG:500VDC/100Mohms				
LEAKAGE CURRENT			<3.5mA/240VAC				
Physical							
Dimension (Weight)			L X W X H	129*98*38mm (360g Net / 400g Gross)			
Warranty			1YEAR				

**NOTES :**

1. ALL PARAMETERS ARE SPECIFIED AT 115&230Vac INPUT, RATED LOAD, 25°C AMBIENT, 70%RH.
2. TOLERANCE: INCLUDE SET UP TOLERANCE , LINE REGULATION, LOAD REGULATION.
3. RIPPLE & NOISE MEASURED 305mm (12") AWAY FROM SMPS ON CABLE CONNECTING SMPS TO LOAD. MEASURE POINT HAS 0.1uF & 47uF CAPACITOR CONNECTED ACROSS CABLES, OSCILLOSCOPE B/W 20MHz & CABLES SHOULD BE TWISTED.
4. LINE REGULATION IS MEASURED FROM LOW LINE TO HIGH LINE AT RATED LOAD.
5. LOAD REGULATION IS MEASURED FROM 0% TO 100%, AT 115 & 230Vac.
6. WARRANTY CONDITIONAL FOR OPERATING UP TO 100%LOAD, AT 115 & 230Vac, Ta=40°C AVERAGE, AT RECOMMENDED MOUNTING (REFER TO DERATING CURVE).
7. EMI GUARANTEED AT 100~120VAC / 200~240VAC & RATED LOAD.