

**PRODUCT SPECIFICATION**  
**MODEL : SWITCH MODE POWER SUPPLY -LCS150 / UT\*\*\***

MODEL :		SPECIFICATION						
NOTE		LCS150-5/UT	LCS150-12/UT	LCS150-24/UT				
Input Characteristics								
Input Voltage Range	Vin	AC : 88~132Vac / 176 ~ 264Vac (MANUAL SELECTABLE)						
Input Voltage Frequency	freq	47 ~ 63						Hz
Input Current	Iin	(max) 3.2A @ 115Vac, 1.6A @ 230Vac						
Inrush Current		(max) 20A @ 115Vac, 40A @ 230Vac at cold start						
Output Characteristics								
Rated Output Voltage	Vout	5	12	24			V	
Output Current - Rated	1 Io(rated)	30	12.5	6.5			A	
Output Current - Min	Io(min)	0	0	0			A	
Output Power	1 Pout	150	150	156			W	
Adjustable Output Range		+/-10%	+/-10%	+/-10%			%	
Ripple & Noise	3	150	180	240			mVpp	
Load Regulation	5	±0.5	±0.3	±0.2			%	
Line Regulation	4	±0.5	±0.3	±0.2			%	
Efficiency	1	77	80	84			%	
Temperature drift		<0.03%/°C (-10~50°C)						%
Rise-up time		300ms max, 100%Load @230Vac						ms
Hold-up time		20ms min, 100%Load @230Vac						ms
Protection								
Over Current Protection	OCP	At 105%<Load<150% @ I/P:115/230VAC Reset by Recycle AC ON/OFF						
Over Voltage Protection	OVP	At 125%<Load<145% @ I/P:115/230VAC Reset by Recycle AC ON/OFF						
Short Circuit Protection		Unit Shutdown. Reset : Recycle AC ON/OFF.						
Environmental Specification								
EMC STANDARDS	7	Conforms to EN55022,VCCI,CISPR22 Class A (Conducted & Radiated); IEC-61000-4-2, 61000-4-4, 61000-4-5, 61000-4-11						
Operating Temperature	Ta	Convection Cooling : 5, 12V: -10°C@80%, 0 ~ 30°C@100%, 60°C@40%Load 24V: -10°C@80%, 0-50°C@100%, 60°C@60%						
Operating Humidity		Forced Air Cooling : -10°C@80%, 0~50°C@100%, 60°C@60%Load						
Storage Temperature		20% ~ 90%RH						
Storage Humidity		-20 ~ 85°C						
Vibration		10%~ 95%RH						
		10~55Hz, 2G 1min/cycle, period of 60min, each x,y&z axis						
Safety Standards		Certified to IEC60950 (CB Certification) to # E204980)&TUV ( file # 50058679 )						UL(file)
WITHSTAND VOLTAGE		I/P--O/P:3KVAC I/P--FG:2.5KVAC O/P--FG:0.5KVAC 1minute						
ISOLATION RESISTANCE		I/P--O/P, I/P--FG, O/P--FG:500VDC/100Mohms						
LEAKAGE CURRENT		<3.5mA/240VAC						
Physical								
Description (Weight)		L X W X H 200*110*50mm (750g Net / 800g 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=30°C AVERAGE. AT RECOMMENDED MOUNTING (REFER TO DERATING CURVE).
7. EMI GUARANTEED AT 100~120VAC / 200~240VAC & RATED LOAD.