

PRODUCT SPECIFICATION

MODEL : SWITCH MODE POWER SUPPLY -LCS50 / UT***

MODEL :		SPECIFICATION						
NOTE		LCS50-5/UT	LCS50-12/UT	LCS50-24/UT			V	
Input Characteristics								
Input Voltage Range	Vin	AC : 85~132Vac / 170 ~ 264Vac (MANUAL SELECTABLE)						
Input Voltage Frequency	freq	47 ~ 63						Hz
Input Current	Iin	(max) 1.3A @ 115Vac, 0.65A @ 230Vac						
Inrush Current		(max) 18A @ 115Vac, 36A @ 230Vac at cold start						
Output Characteristics								
Rated Output Voltage	Vout	5	12	24			V	
Output Current - Rated	1 Io(rated)	10	4.2	2.1			A	
Output Current - Min	Io(min)	0	0	0			A	
Output Power	1 Pout	50.0	50.4	50.4			W	
Adjustable Output Range		+/-10%	+/-10%	+/-10%				
Ripple & Noise	3	75	100	100			mVpp	
Load Regulation	5	±1.0	±0.5	±0.5			%	
Line Regulation	4	±0.5	±0.5	±0.5			%	
Efficiency	1	74	77	81			%	
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 Load>120% @ I/P:115/230VAC 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	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	-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),to UL (file #E204980)& 50058679						TUV(file # R
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								
Dimension (Weight)		L X W X H 160*98*38mm (450g Net / 490g 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.