

**PRODUCT SPECIFICATION**

**MODEL : SWITCH MODE POWER SUPPLY - LCS100 / UT\*\*\***

MODEL :		SPECIFICATION						
NOTE		LCS100-5 / UT	LCS100-12 / UT	LCS100-24 / UT			V	
Input Characteristics		Vin	AC : 85 ~ 132Vac / 170 ~ 264Vac (MANUAL SELECTABLE)					
Input Voltage Range		freq	47 ~ 63					Hz
Input Voltage Frequency		lin	(max) 2.4A @ 115Vac, 1.2A @ 230Vac					
Input Current			(max) 20A @ 115Vac, 40A @ 230Vac at cold start					
Inrush Current								
Output Characteristics		Vout	5	12	24		V	
Rated Output Voltage		1 Io(rated)	20	8.5	4.5		A	
Output Current - Rated		Io(min)	0	0	0		A	
Output Current - Min		1 Pout	100	102	108		W	
Output Power			+/-10%	+/-10%	+/-10%			
Adjustable Output Range		3	100	100	100		mVpp	
Ripple & Noise		5	±0.5	±0.3	±0.2		%	
Load Regulation		4	±0.5	±0.3	±0.2		%	
Line Regulation		1	75	79	83		%	
Efficiency			<0.03%/°C (-10~50°C)					%
Temperature drift								
Rise-up time			300ms max, 100%Load @230Vac					ms
Hold-up time			20ms min, 100%Load @230Vac					ms
Protection		OCP	At 105%<Load<150% @ I/P:115/230VAC Reset by Recycle AC ON/OFF					
Over Current Protection		OVP	At 125%<Load<145%@ I/P:115/230VAC Reset by Recycle AC ON/OFF					
Over Voltage Protection			Unit Shutdown. Reset : Recycle AC ON/OFF.					
Short Circuit Protection								
Environmental Specification		7 Ta	Conforms to EN55022 VCCI,CISPR22 Class A (Conducted & Radiated); IEC-61000-4-2, 61000-4-4, 61000-4-5, 61000-4-11					
EMC STANDARDS			Convection :					
Operating Temperature			12, 24V: -10°C@80%, 0 ~ 50°C@100%, 60°C@60%Load					
			5V: -10°C@80%, 0-35°C@100%, 60°C@50%Load					
			Forced Air :					
			-10°C@80%, 0 ~ 50°C@100%, 60°C@60%Load					
			20% ~ 90%RH					
			-20 ~ 85°C					
			10%~ 95%RH					
			10~55Hz, 2G 1min/cycle, period of 60min, each x,y&z axis					
Safety Standards			Certified to IEC60950 (CB Certification) UL (file # E204980) & TUV (file # R 50058679)					
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	199*98*38mm (560g Net / 610g 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=35°C AVERAGE.  
AT RECOMMENDED MOUNTING (REFER TO DERATING CURVE).
7. EMI GUARANTEED AT 100~120VAC / 200~240VAC & RATED LOAD.