

LPL60-60-10/IS

Constant Voltage Mode				Constant Power Mode			
CVH Range	0.000	~	60.00 V	CPH Range	0.000	~	60.00 W
CVM Range	0.000	~	30.00 V	CPM Range	0.000	~	30.00 W
CVL Range	0.000	~	6.000 V		@ lin	≤	5.000 A
Transient Time Range				CPL Range	0.000	~	6.000 W
Fast Band(Default,Osc1)	0.500	~	51.188 ms		@ lin	≤	1.000 A
Slow Band(Osc2,Osc3)	0.500	~	511.88 ms	Transient Time Range	Same As CC Mode		
Temperature Coefficient	100 ppm/°C of Rated Voltage			Temperature Coefficient	300 ppm/°C of Rated Power		
Program				Program			
CVH Resolution*2		3.750	mV	CPH Resolution*2		0.004	W
CVM Resolution*2		1.875	mV	CPM Resolution*2		0.002	W
CVL Resolution*2		0.375	mV	CPL Resolution*2		0.000	W
CVH Accuracy*2	0.05%	±	0.060 V	CPH Accuracy*2	1.00%	±	0.300 W
CVM Accuracy*2	0.05%	±	0.060 V		@lin	>	0.500 A
CVL Accuracy*2	0.05%	±	0.060 V		& Vin	>	6.000 V
Transient Time Accuracy	10.0%	±	50% of Minimum Time	CPM Accuracy*2	1.00%	±	0.300 W
Readback					@lin	>	0.100 A
CVH Resolution		3.750	mV		& Vin	>	6.000 V
CVM Resolution		1.875	mV	CPL Accuracy*2	1.00%	±	0.300 W
CVL Resolution		0.375	mV		@lin	>	0.010 A
CVH Accuracy	0.05%	±	0.060 V		& Vin	>	12.00 V
CVM Accuracy	0.05%	±	0.060 V	Transient Time Accuracy	10.0%	±	50% of Minimum Time
CCL Accuracy	0.05%	±	0.060 V	Constant Resistor Mode			
Constant Current Mode				CRH Range	60.00	~	3,000 Ohm
CCH Range	0.000	~	10.00 A		@ lin	≤	1.000 A
CCM Range	0.000	~	5.000 A	CRM Range	6.000	~	1,500 Ohm
CCL Range	0.000	~	1.000 A	CRL Range	0.0450	~	6.000 Ohm
Transient Time Range				Transient Time Range	Same As CC Mode		
Fast Band(Default,Osc1)	0.050	~	51.19 ms	CRM/CRH	Same As CV Mode		
Slow Band(Osc2,Osc3)	0.500	~	511.9 ms	CRL			
Minimum Voltage(I _{Max})		0.450	V	Temperature Coefficient	300 ppm/°C of Minimum Resistance		
Temperature Coefficient	100 ppm/°C of Rated Current			CRM/H	300 ppm/°C of Maximum Resistance		
				CRL			
Program				Program			
CCH Resolution*2		0.625	mA	CRH Resolution*2		0.0010	mS
CCM Resolution*2		0.313	mA	CRM Resolution*2		0.0104	mS
CCL Resolution*2		0.063	mA	CRL Resolution*2		0.3750	mΩ
CCH Accuracy*2	0.05%	±	0.010 A	CRH Accuracy*2	1.00%	±	0.083 mS
CCM Accuracy*2	0.05%	±	0.010 A		@lin	>	0.010 A
CCL Accuracy*2	0.05%	±	0.010 A		& Vin	>	12.00 V
Transient Time Accuracy	10.0%	±	50% of Minimum Time	CRM Accuracy*2	1.00%	±	0.333 mS
Readback					@lin	>	0.100 A
CCH Resolution		0.625	mA		& Vin	>	6.000 V
CCM Resolution		0.313	mA	CRL Accuracy*2	1.00%	±	12.00 mΩ
CCL Resolution		0.063	mA		@lin	>	1.000 A
CCH Accuracy	0.05%	±	0.010 A		& Vin	>	0.060 V
CCM Accuracy	0.05%	±	0.010 A	Transient Time Accuracy	10.0%	±	50% of Minimum Time
CCL Accuracy	0.05%	±	0.010 A	External			
Programmable Protection				Program	0~10 Volts Input yields		
Power(OPP)					0~selected full scaled loading in all modes		
Range	0.083	~	66.00 W	Accuracy	Same As Internal	± 0.1%	Rating
Resolution			0.008 W	Input Impedance	400.0	±	1 KΩ
Accuracy	0.50%		0.165 W	BandWidth(-3dB)	Limited By Internal Adjustable Transient Time		
Voltage(OVP)				Monitor output Signal	0~10 Volts output for 0~full scaled Value		
Range	0.039	~	63.00 V	VMON Accuracy	0.10%	±	0.060 V
Resolution			0.004 V	IMON Accuracy	0.10%	±	0.010 A
Accuracy	0.20%	±	0.079 V	Others			
Current(OCP)				Transient Mode			
Range	0.007	~	10.50 A	Frequency Range	0.100	~	10,000 Hz
Resolution			0.001 A	Accuracy			0.1%
Accuracy	0.20%	±	0.013 A	Duty Range	1.000	~	100.0 %
Under Voltage Lockout(UVL)				Accuracy			0.1%
Mode	Input On/Continuous			Remote Interface	GPIO/RS-232/ETHERNET/USB		
Range	0.045	~	60.00 V	Derating for higher temperatures	(-)1.67% Rated Power/°C		
Resolution			0.015 V	General			
Accuracy	2.00%	±	0.075 V	AC Input	85~240 Vac 48~62 Hz		
Anti-Oscillation	Default/Osc1/Osc2/Osc3/Disable			Power Consumption	80 VA		
				Operating Temperature	5 °C ~ 40 °C		
Protection				Dimension	21(L)x17(W)x1.75(H)		
Over Power Protection(OP)	66.0	±	1.257 W	Weight	23 LBS		
Over Voltage Protection(OV)	63.00	±	1.200 V	Dielectric Strength			
Over Current Protection(OC)	11.00	±	0.105 A	Primary Circuit To Chassis	1500 VAC for 1 MIN		
Over Temperature Protection(OTP)	90.00	±	5.000 °C	Primary Circuit To Load Terminal	1500 VAC for 1 MIN		
Reverse Maximum Current(RCP)	11.00		A	Load Terminal To Chassis	1500 VDC for 1 MIN		
Short Maximum Current			10.20 A	Dielectric Strength			
Remote Inhibit(RI)	Short			Primary Circuit To Chassis	1500 VAC for 1 MIN		
Fault Indicator	SPDT Relay (30VDC/0.5A or 125VAC/0.25A)			Primary Circuit To Load Terminal	1500 VAC for 1 MIN		
				Load Terminal To Chassis	1500 VDC for 1 MIN		

*1 All Mode Specification measure by slow band and 25°C room temperature unless otherwise specified

*2 Transient Mode Specification must be x2 AMRE/L reserves the right to change limits, test conditions, and dimensions without notice

Ver 1.0

Date : 02/10/06

R&D-SPEC-LPL60-60-10/IS

Rev.: Original

Page 1 of 2

"Uncontrolled Copy" if you printed

LPL60-60-10/IS (60V,10A,60W) OPERATIONAL CURVE

