

LPL150-60-60/IS

Constant Voltage Mode				Constant Power Mode					
CVH Range	0.000	~	60.00	V	CPH Range	0.000	~	150.0	W
CVM Range	0.000	~	30.00	V	CPM Range	0.000	~	75.00	W
CVL Range	0.000	~	6.000	V		@ lin	≤	30.00	A
Transient Time Range					CPL Range	0.000	~	15.00	W
Fast Band(Default,Osc1)	0.500	~	51.188	ms		@ lin	≤	6.000	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			0.009	W
CVM Resolution*2			1.875	mV	CPM Resolution*2			0.005	W
CVL Resolution*2			0.375	mV	CPL Resolution*2			0.001	W
CVH Accuracy*2	0.05%	±	0.060	V	CPH Accuracy*2	1.00%	±	0.750	W
CVM Accuracy*2	0.05%	±	0.060	V		@lin	>	3.000	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%	±	0.750	W
Readback						@lin	>	0.600	A
CVH Resolution			3.750	mV		& Vin	>	6.000	V
CVM Resolution			1.875	mV	CPL Accuracy*2	1.00%	±	0.750	W
CVL Resolution			0.375	mV		@lin	>	0.060	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	10.00	~	500.0	Ohm
CCH Range	0.000	~	60.00	A		@ lin	≤	6.000	A
CCM Range	0.000	~	30.00	A	CRM Range	1.000	~	250.0	Ohm
CCL Range	0.000	~	6.000	A	CRL Range	0.0075	~	1.000	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	300 ppm/°C of Maximum Resistance			
Program					Program				
CCH Resolution*2			3.750	mA	CRH Resolution*2			0.0063	mS
CCM Resolution*2			1.875	mA	CRM Resolution*2			0.0625	mS
CCL Resolution*2			0.375	mA	CRL Resolution*2			0.0625	mΩ
CCH Accuracy*2	0.05%	±	0.060	A	CRH Accuracy*2	1.00%	±	0.500	mS
CCM Accuracy*2	0.05%	±	0.060	A		@lin	>	0.060	A
CCL Accuracy*2	0.05%	±	0.060	A		& Vin	>	12.00	V
Transient Time Accuracy	10.0%	±	50% of Minimum Time		CRM Accuracy*2	1.00%	±	2.000	mS
Readback						@lin	>	0.600	A
CCH Resolution			3.750	mA		& Vin	>	6.000	V
CCM Resolution			1.875	mA	CRL Accuracy*2	1.00%	±	2.000	mΩ
CCL Resolution			0.375	mA		@lin	>	6.000	A
CCH Accuracy	0.05%	±	0.060	A		& Vin	>	0.060	V
CCM Accuracy	0.05%	±	0.060	A	Transient Time Accuracy	10.0%	±	50% of Minimum Time	
CCL Accuracy	0.05%	±	0.060	A	External				
Programmable Protection					Program	0~10 Volts Input yields			
Power(OPP)						0~selected full scaled loading in all modes			
Range	0.206	~	165.0	W	Accuracy	Same As Internal	± 0.1%	Rating	
Resolution			0.021	W	Input Impedance	400.0	±	1	KΩ
Accuracy	0.50%		0.413	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%	±	0.060	A
Accuracy	0.20%	±	0.079	V	Others				
Current(OCP)					Transient Mode				
Range	0.039	~	63.00	A	Frequency Range	0.100	~	10,000	Hz
Resolution			0.004	A	Accuracy			0.1%	
Accuracy	0.20%	±	0.079	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					
Resolution			0.015	V	Derating for higher temperatures	(-)1.67% Rated Power/°C			
Accuracy	2.00%	±	0.075	V	General				
Anti-Oscillation	Default/Osc1/Osc2/Osc3/Disable				AC Input	85~240 Vac 48~62 Hz			
Protection					Power Consumption	80 VA			
Over Power Protection(OP)	165.0	±	3.143	W	Operating Temperature	5 °C	~	40 °C	
Over Voltage Protection(OV)	63.00	±	1.200	V	Dimension	21(L)x17(W)x1.75(H)			
Over Current Protection(OC)	66.00	±	0.629	A	Weight	23 LBS			
Over Temperature Protection(OTP)	90.00	±	5.000	°C	Dielectric Strength				
Reverse Maximum Current(RCP)	66.00			A	Primary Circuit To Chassis	1500 VAC for 1 MIN			
Short Maximum Current			61.20	A	Primary Circuit To Load Terminal	1500 VAC for 1 MIN			
Remote Inhibit(RI)	Short				Load Terminal To Chassis	1500 VDC for 1 MIN			
Fault Indicator	SPDT Relay (30VDC/0.5A or 125VAC/0.25A)				Dielectric Strength				
Dielectric Strength					Primary Circuit To Chassis	1500 VAC for 1 MIN			
Primary Circuit To Chassis	1500 VAC for 1 MIN				Primary Circuit To Load Terminal	1500 VAC for 1 MIN			
Primary Circuit To Load Terminal	1500 VAC for 1 MIN				Load Terminal To Chassis	1500 VDC for 1 MIN			
Load Terminal To Chassis	1500 VDC for 1 MIN				Dielectric Strength				

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

Ver 1.0

Date : 02/10/06

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

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Rev.: Original

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LPL150-60-60/IS (60V,60A,150W) OPERATIONAL CURVE

