

# LPL150-60-30/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	≤	15.00	A
Transient Time Range					CPL Range	0.000	~	15.00	W
Fast Band(Default,Osc1)	0.500	~	51.188	ms		@ lin	≤	3.000	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	>	1.500	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%	±	0.750	W
Readback					@lin	>	0.300	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	>	0.030	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	20.00	~	1,000	Ohm	
CCH Range	0.000	~	30.00	A		@ lin	≤	3.000	A
CCM Range	0.000	~	15.00	A	CRM Range	2.000	~	500.0	Ohm
CCL Range	0.000	~	3.000	A	CRL Range	0.0150	~	2.000	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 <sub>Max</sub> )			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			1.875	mA	CRH Resolution*2			0.0031	mS
CCM Resolution*2			0.938	mA	CRM Resolution*2			0.0313	mS
CCL Resolution*2			0.188	mA	CRL Resolution*2			0.1250	mΩ
CCH Accuracy*2	0.05%	±	0.030	A	CRH Accuracy*2	1.00%	±	0.250	mS
CCM Accuracy*2	0.05%	±	0.030	A		@lin	>	0.030	A
CCL Accuracy*2	0.05%	±	0.030	A		& Vin	>	12.00	V
Transient Time Accuracy	10.0%	±	50% of Minimum Time		CRM Accuracy*2	1.00%	±	1.000	mS
Readback					@lin	>	0.300	A	
CCH Resolution			1.875	mA		& Vin	>	6.000	V
CCM Resolution			0.938	mA	CRL Accuracy*2	1.00%	±	4.000	mΩ
CCL Resolution			0.188	mA		@lin	>	3.000	A
CCH Accuracy	0.05%	±	0.030	A		& Vin	>	0.060	V
CCM Accuracy	0.05%	±	0.030	A	Transient Time Accuracy	10.0%	±	50% of Minimum Time	
CCL Accuracy	0.05%	±	0.030	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%	±	0.030	A
Accuracy	0.20%	±	0.079	V	Others				
Current(OCP)					Transient Mode				
Range	0.020	~	31.50	A	Frequency Range	0.100	~	10,000	Hz
Resolution			0.002	A	Accuracy			0.1%	
Accuracy	0.20%	±	0.039	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)	165.0	±	3.143	W	Weight	23 LBS			
Over Voltage Protection(OV)	63.00	±	1.200	V	Dielectric Strength				
Over Current Protection(OC)	33.00	±	0.314	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)	33.00			A	Load Terminal To Chassis	1500 VDC for 1 MIN			
Short Maximum Current			30.60	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 AMREL reserves the right to change limits, test conditions, and dimensions without notice

Ver 1.0

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Rev.: Original

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LPL150-60-30/IS (60V,30A,150W) OPERATIONAL CURVE

