

LEB-18V Series, 18Watt

FEATURES:

- ✓ Constant voltage output
- ✓ Input voltage: 180-264VAC
- ✓ Short circuit, over voltage, and over temperature protections
- ✓ IP67 rated
- ✓ Cooling by free air convection
- ✓ Class II, no FG
- ✓ Pass LPS (Limited Power Source) Test
- ✓ Application for LED lighting and electronic screen
- ✓ 100% burn-in test
- ✓ High reliability
- ✓ 2 years warranty



Model	Input voltage (Vac)	Output voltage (Vdc)	Output current (mA)		Output power (W)
			Min.	Max.	
LEB18-V12	180-264	12	0	1500	18
LEB18-V24		24	0	750	18
LEB18-V36		36	0	500	18

ELECTRICAL

Input

Parameters	Symbols	Test Conditions / Comment	Min.	Typ.	Max.	Units
Input voltage	V_{in}	---	180	--	264	Vac
Input frequency	F_{line}	---	47	--	63	Hz
Input current	I_{in}	Full load, $V_{in} = 230Vac$	--	0.3	--	A
Inrush current	I_{inrush}	Cold start, $V_{in} = 230Vac$	--	50	--	A
Efficiency	η	Full voltage, full load	--	82	--	%
Leakage current	$I_{leakage}$	$V_{in} = 230Vac$	--	0.25	--	mA

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Output

Parameters	Symbols	Test Conditions / Comment	Min.	Typ.	Max.	Units
Output current	I_{out}	LEB18-V12	0	--	1500	mA
		LEB18-V24	0	--	750	mA
		LEB18-V36	0	--	500	mA
Output voltage	V_{out}	LEB18-V12	--	12	--	V
		LEB18-V24	--	24	--	V
		LEB18-V36	--	36	--	V
Output voltage accuracy	--	---	--	±3	--	%
Line regulation	$I_{out-line}$	---	--	±1.0	--	%
Load regulation	$I_{out-load}$	---	--	±2.0	--	%
Turn-on delay time	T_{on_delay}	$V_{in} = 230Vac$, full load	--	1500	--	ms
Rise time	T_{on_rise}	$V_{in} = 230Vac$, full load	--	30	--	ms
Hold-on time	--	$V_{in} = 230Vac$, full load	--	50	--	ms
Ripple	--	---	--	--	200	mVp-p

Protection

Over current	Typical:>105%; Hiccup mode, it will auto-recovery after fault conditions remove					
Over voltage	Typical:110-150%; Protection: turn off output voltage, Diode clamp type					
Over temperature	Hiccup mode, it will auto-recovery after temperature become normal					

Environment

Storage	$T_{storage}$	Humidity: 5% RH to 95% RH	-40	--	+80	°C
Ambient operating temperature	T_a	Startup at rated voltage (Please refer to derating curve)	-30	--	+70	°C

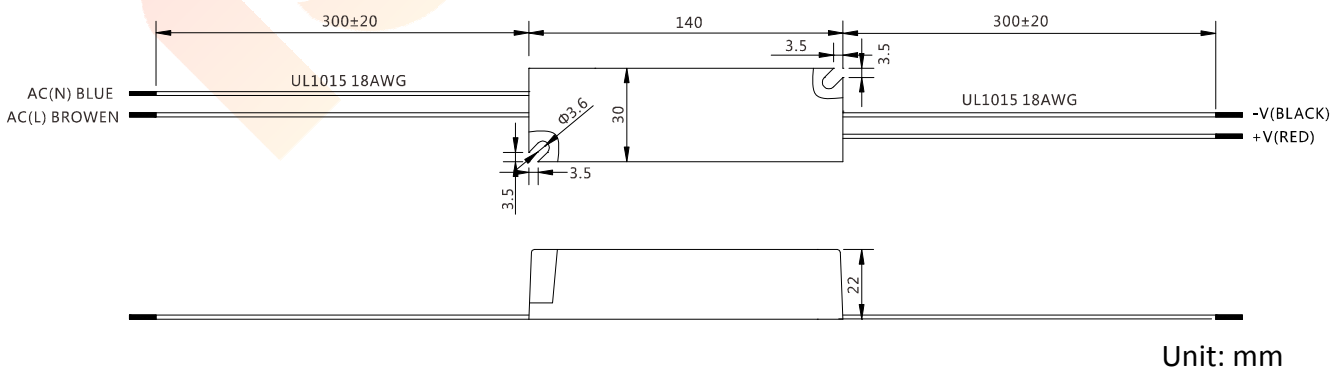
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Environment						
Parameters	Symbols	Test Conditions / Comment	Min.	Typ.	Max.	Units
Temperature coefficient	--	---	--	300	--	ppm
Operating relative humidity	H _a	Non condensing	10	--	95	%
MTBF	T _{MTBF}	Full load, 220Vac input, 25°C ambient temperature	--	1200	--	kHrs
Dimension(LxWxH)		140x30x22mm				
Weight		175g				
Safety / EMC						
Safety standards		UL1310 Class 2, TUV EN61347-1, EN61347-2-13, TUV EN60950-1, IP67				
Withstand voltage		I/P-O/P:3KVAC				
Insulation Resistance		I/P-O/P: > 100M Ohms/500VDC/25°C/70%RH				
EMC emission		Design to EN55022(CISPR22)Class B, EN61000-3-2 Class A, EN61000-3-3				
EMC immunity		Design to EN61000-4-2,3,4,5,6,8,11, EN55024				

- Notes:**
1. Unless otherwise specified, all the above parameters are measured at ambient temperature of 25°C and Vin = 230Vac, rated load;
 2. Ripple & Noise are measured at 20MHZ of bandwidth by using a 12" twisted pair-wire terminated with a 0.1µF & 47µF parallel capacitor;
 3. Suitable for indoor or outdoor which away from direct sunlight conditions, avoid soaking in water for more than 30 minutes.

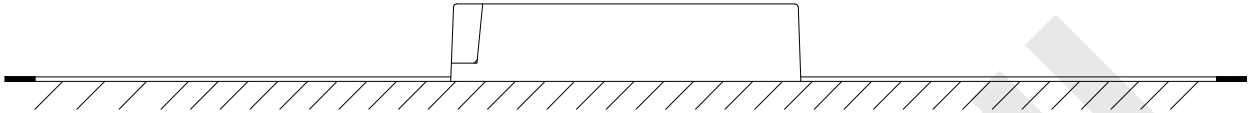
MECHANICAL



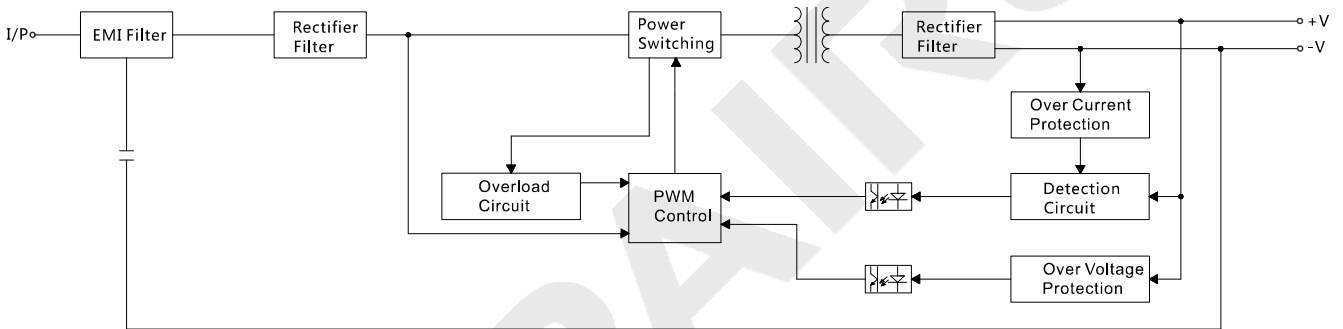
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MECHANICAL

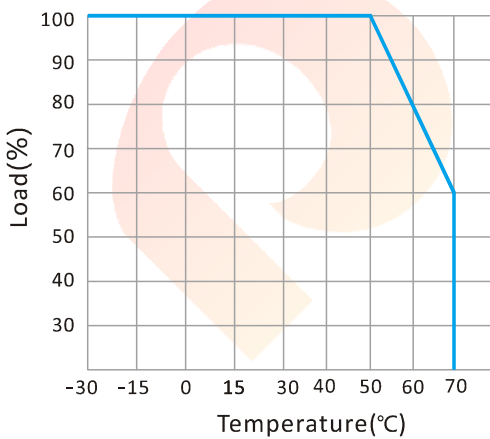
RECOMMEND INSTALLATION



BLOCK DIAGRAM



DERATING CURVE



STATIC CHARACTERISTIC CURVE

