

LEA-18C Series, 18Watt

FEATURES:

- ✓ Constant current output
- ✓ Input voltage: 90-132VAC
- ✓ 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 current (mA)	Output voltage (Vdc)		Output power (W)
			Min.	Max.	
LEA18-C350	90-132	350	6	48	16.8
LEA18-C700		700	6	25	17.5

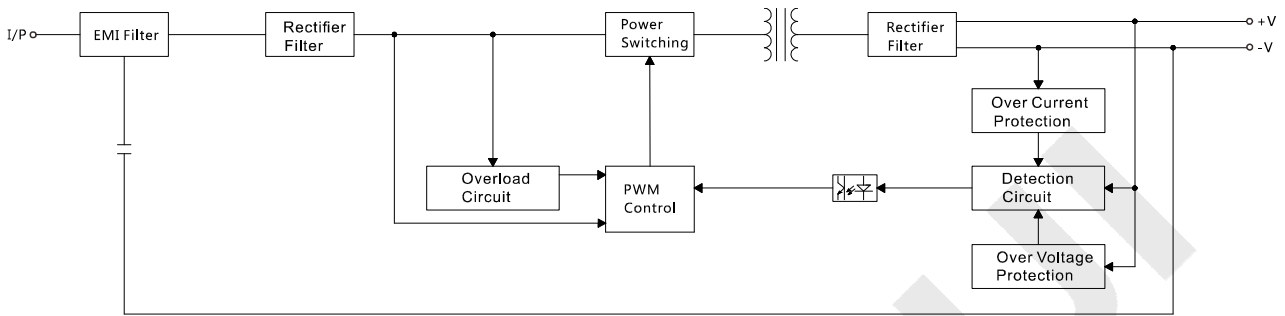
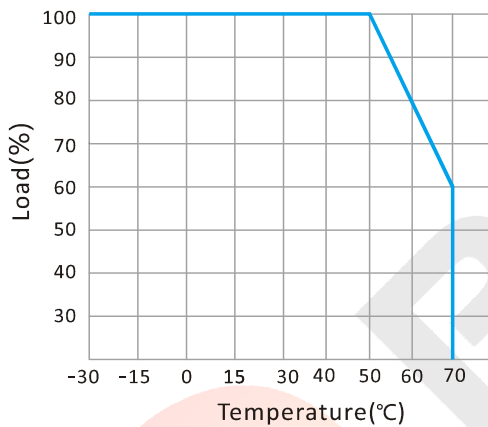
ELECTRICAL

Input

Parameters	Symbols	Test Conditions / Comment	Min.	Typ.	Max.	Units
Input voltage	V_{in}	---	90	--	132	Vac
Input frequency	F_{line}	---	47	--	63	Hz
Input current	I_{in}	Full load, $V_{in} = 115V_{ac}$	--	0.5	--	A
Inrush current	I_{inrush}	Cold start, $V_{in} = 115V_{ac}$	--	40	--	A
Efficiency	η	$V_{in} = 90-132V_{ac}$, full load	--	80	--	%
Leakage current	$I_{leakage}$	$V_{in} = 115V_{ac}$	--	0.25	--	mA

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Output						
Parameters	Symbols	Test Conditions / Comment	Min.	Typ.	Max.	Units
Output current	I_{out}	LEA18-C350	--	350	--	mA
		LEA18-C700	--	700	--	mA
Output voltage	V_{out}	LEA18-C350	6	--	48	V
		LEA18-C700	6	--	25	V
Output voltage accuracy	--	---	--	±5	--	%
Output current accuracy	--	---	--	±8	--	%
Line regulation	$I_{out-line}$	---	--	±1.0	--	%
Load regulation	$I_{out-load}$	---	--	±3.0	--	%
Turn-on delay time	T_{on_delay}	$V_{in}=115Vac$, full load	--	3600	--	ms
Rise time	T_{on_rise}	$V_{in}=115Vac$, full load	--	150	--	ms
Hold-on time	--	$V_{in}=115Vac$, full load	--	20	--	ms
Ripple	--	---	--	--	300	mVp-p
Protection						
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
Temperature coefficient	--	---	--	200	--	ppm
Operating relative humidity	H_a	Non condensing	10	--	95	%
MTBF	T_{MTBF}	Full load, 115Vac input, 25°C ambient temperature	--	1200.6	--	kHrs

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BLOCK DIAGRAM

DERATING CURVE

STATIC CHARACTERISTIC CURVE
