

Triac Dimming low output ripple LED Driver



Approval Marks



Australia Certificate No. : TUV020884EA

Electronic

Parameter	Conditions	Min	Nom	Max	Unit
I/P Voltage Range		198	220-240	264	Vac
Input Frequency		47	50-60	63	Hz
Input Current	Full load @230Vac	-	-	170	mA
Output Voltage Range	LBTC30W500LR-Z	42	-	60	Vdc
	LBTC30W525LR-Z	42	-	57	Vdc
	LBTC30W550LR-Z	36	-	54	Vdc
	LBTC30W575LR-Z	36	-	51	Vdc
	LBTC30W600LR-Z	36	-	50	Vdc
	LBTC30W625LR-Z	36	-	48	Vdc
	LBTC30W650LR-Z	30	-	46	Vdc
	LBTC30W675LR-Z	30	-	44	Vdc
	LBTC30W700LR-Z	30	-	42	Vdc
	LBTC30W725LR-Z	30	-	39	Vdc
	LBTC30W750LR-Z	27	-	36	Vdc
	LBTC30W775LR-Z	27	-	36	Vdc
	LBTC30W800LR-Z	27	-	36	Vdc
	LBTC30W825LR-Z	27	-	33	Vdc
	LBTC30W850LR-Z	27	-	33	Vdc
	LBTC30W875LR-Z	27	-	33	Vdc
	LBTC30W900LR-Z	21	-	30	Vdc
	LBTC30W925LR-Z	21	-	30	Vdc
	LBTC30W950LR-Z	21	-	30	Vdc
	LBTC30W975LR-Z	21	-	30	Vdc
	LBTC30W1000LR-Z	21	-	30	Vdc
Output Current Range	LBTC30W500LR-Z	475	500	525	mA
	LBTC30W525LR-Z	498	525	552	mA
	LBTC30W550LR-Z	522	550	578	mA
	LBTC30W575LR-Z	546	575	604	mA
	LBTC30W600LR-Z	570	600	630	mA
	LBTC30W625LR-Z	593	625	657	mA
	LBTC30W650LR-Z	617	650	683	mA
	LBTC30W675LR-Z	641	675	709	mA
	LBTC30W700LR-Z	665	700	735	mA
	LBTC30W725LR-Z	688	725	762	mA
	LBTC30W750LR-Z	712	750	788	mA
	LBTC30W775LR-Z	736	775	814	mA
	LBTC30W800LR-Z	760	800	840	mA
	LBTC30W825LR-Z	783	825	867	mA
	LBTC30W850LR-Z	807	850	893	mA
	LBTC30W875LR-Z	831	875	919	mA
	LBTC30W900LR-Z	855	900	945	mA
	LBTC30W925LR-Z	878	925	972	mA

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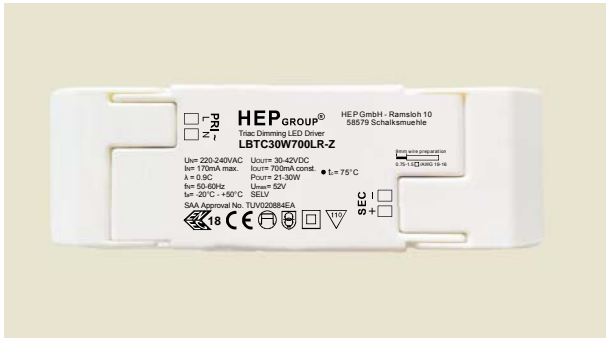


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Parameter	Conditions	Min	Nom	Max	Unit
Output Current Range	LBTC30W950LR-Z	902	950	998	mA
	LBTC30W975LR-Z	926	975	1024	mA
	LBTC30W1000LR-Z	950	1000	1050	mA
Rated Output Power	LBTC30W500LR-Z	21	-	30	W
	LBTC30W525LR-Z	22.1	-	29.9	W
	LBTC30W550LR-Z	19.8	-	29.7	W
	LBTC30W575LR-Z	20.7	-	29.3	W
	LBTC30W600LR-Z	19.8	-	30	W
	LBTC30W625LR-Z	20.6	-	30	W
	LBTC30W650LR-Z	19.5	-	29.9	W
	LBTC30W675LR-Z	20.3	-	29.7	W
	LBTC30W700LR-Z	21	-	29.4	W
	LBTC30W725LR-Z	21.8	-	28.3	W
	LBTC30W750LR-Z	20.3	-	27	W
	LBTC30W775LR-Z	20.9	-	27.9	W
	LBTC30W800LR-Z	19.2	-	28.8	W
	LBTC30W825LR-Z	19.8	-	27.2	W
	LBTC30W850LR-Z	20.4	-	28	W
	LBTC30W875LR-Z	21	-	28.9	W
LBTC30W900LR-Z	18.9	-	27	W	
LBTC30W925LR-Z	19.4	-	27.7	W	
LBTC30W950LR-Z	20	-	28.5	W	
LBTC30W975LR-Z	20.5	-	29.2	W	
LBTC30W1000LR-Z	21	-	30	W	
Open-circuit Voltage	LBTC30W500LR-Z - LBTC30W625LR-Z	-	66	-	Vdc
	LBTC30W650LR-Z - LBTC30W875LR-Z	-	52	-	Vdc
	LBTC30W900LR-Z - LBTC30W1000LR-Z	-	38	-	Vdc
THD		-	20	30	%
Efficiency	Full Load	84	-	-	%
Standby Power	No load @230Vac	-	-	0.5	W
Rise Time		-	-	500	ms
Start-up Delay		-	-	500	ms
Output Current Overshoot		-	-	5	%
Typical Output LF Current Ripple	Full Load	-	±4.5	-	%
Power Factor	Full Load@230VAC	0.90	-	-	-
Protection	Short Circuit Protection	Auto recovery			
	Open circuit Protection	Max output voltage at no load			
	Over-Load Protection	Auto recovery			
Case Temperature(Tc)	LBTC30W500LR-Z - LBTC30W875LR-Z	-	-	+75	°C
	LBTC30W900LR-Z - LBTC30W1000LR-Z	-	-	+80	°C
External Operating Temperature		-20	-	+50	°C
Operating Humidity Range		10	-	95	%

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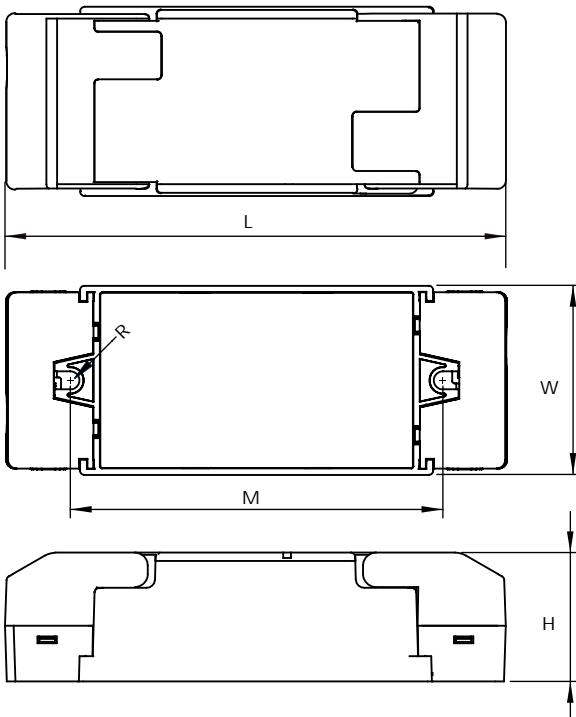


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Electronic

Parameter	Conditions	Min	Nom	Max	Unit
Storage Temp. Range		-40	-	+85	°C
Lifetime	at Max Case hot spot Temperature	-	50,000	-	hrs
Dimming Range		10	-	100	%
Dimming Type		Triac dimming			
Case Dimensions	LxWxH	137.4	44	30	mm

Physical Parameter



L : 137.4 mm R1: 2.1 mm
M : 107.7 mm H : 30 mm
W : 44 mm

Slot On One Side Allowing Alignment : M+/-3 mm

Tolerance : $\geq 0 \sim 100 \geq \pm 0.5$ mm
 $100 \geq \pm 1$ mm

Terminal Block : Push-Button

Housing Material : Polycarbonate

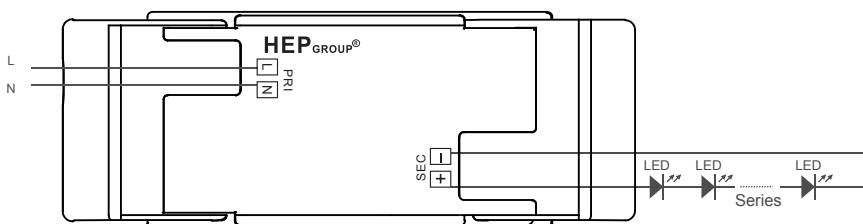
Soldering : Lead-Free, Comply With RoHS

Label : Surface Print

Cable Cross Section : 0.75-1.5 mm² / AWG 18-16

Stripping : 9mm

Wiring



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Trailing Edge Dimmer list approved by HEP

Manufacturer	Model	Q'ty of parallel connection
Schneider	SBD315RC(315W)	7
CLIPSAL	32E450UDM(450W)	10
CLIPSAL	32E450TM(450W)	10
HPM	CAT400T(400W)	9
Berker	2874(525W)	12
Busch	6513U-102(420W)	9
Busch	6519U(550W)	12
JUNG	225 TDE(525W)	12
Hager	WUD42(500W)	11
KAOYI	KED-400A(400W)	9