

### ■Features

Class II , SELV , Independent

Input Voltage 220-240VAC

Protections: SCP/OLP/OVP

Power Factor > 0.9

Efficiency  $\geq 87\%$

3 years warranty

Life time > 30,000H@45°C



### ■Approve

**SELV**      **CE**

### ■Model code

LS-20-700 LI2

↑      ↑      ↑      ↑

Series      Power      Current      Flicker-free

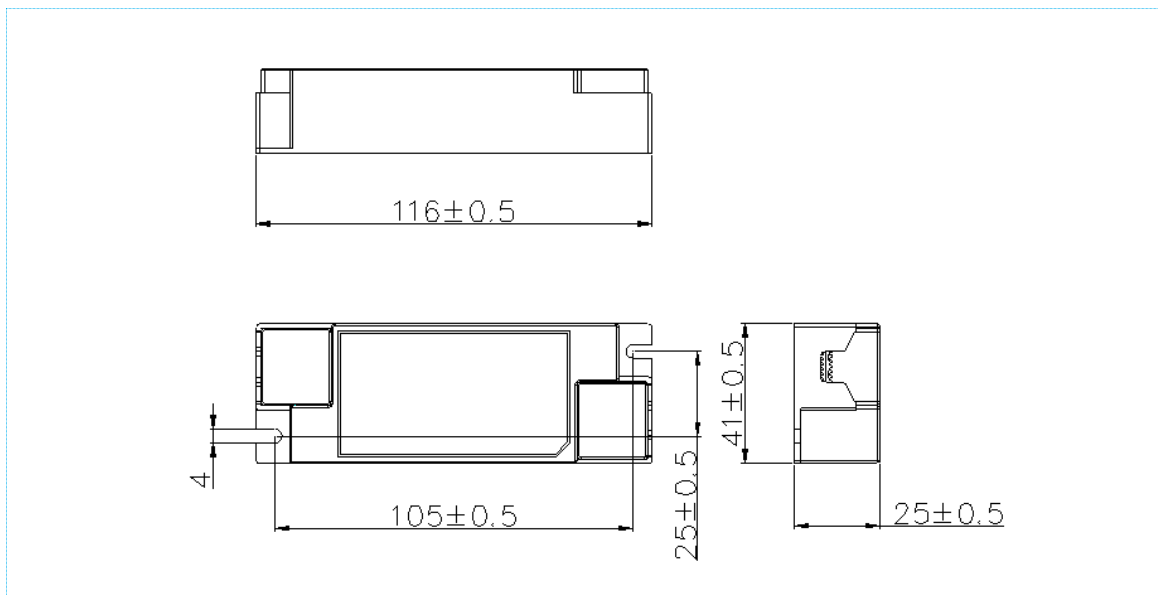
## ■ Specification

Input	Rated input voltage	220-240VAC				
	Range of input voltage	198-264VAC				
	DC voltage range	198-280V				
	Frequency(Hz)	0/50/60 Hz				
	Power Factor	> 0.9@Full Load,240VAC				
	Input Current max	0.16A MAX. @Full Load,198VAC (Please see Model list below for details.)				
	Start-up time	< 0.5S				
	Unload Power Consumption	≤0.5W				
	Inrush Current	20A Max				
	THD	8% Typ.				
Leakage Current	< 0.5mA(240VAC)					
Output	Constant Current Max. *Note.3	300mA	350mA	400mA	...	700mA
	Unload voltage Max.	80 VDC	70 VDC	55 VDC	...	40 VDC
	Voltage Range(VDC)	48-70VDC	40-60VDC	30-45VDC	...	20-30VDC
	Rated power	21W Max.	21W Max.	18W Max.	...	21W Max.
	Current Accuracy	±5%				
	Voltage Regulation	±3% @Full Load				
	Load Regulation	±5%				
	Hold-up Time	1s max.@Full Load				
	Ripple & Noise *Note.2	≤18mAp-p	≤21mAp-p	≤24mAp-p	...	≤42mAp-p
	Efficiency(Typ.)	≥87%				
Protection	Over Load Protection	103-120%				
		Protection type: Auto Resume				
	Over Voltage Protection	> 80VDC	> 70VDC	> 55VDC	...	> 40VDC
		Protection type: Auto Resume				
	Short circuit Protection	Protection type: Auto Resume				
	Over Temperature protection	NA				
Environment	Operating Temperature	-20°C...+45°C				
	tc	75°C				
	Storage Temperature	-25°C...+60°C				
	Life time	> 30,000h@45°C				
	Humidity	10%-90%RH				
Others	Dimension	116X41X25(LXWXH)mm				
Safety & EMC	Safety standards	EN 61347-1; EN61347-2-13;				
	Withstand voltage	Input-Output : 3750V/5mA/1min				
	Isolation resistance	Input-Output : ≥4MΩ@500VDC				
	EMI	EN55015; EN61000-3-2 Class C; EN61000-3-3				
	EMS	EN 61547; EN 61000-4-2; EN 61000-4-5 —1000V;				
Note	1.All parameters NOT specially mentioned are measured at 240VAC input , full load and 25°C of ambient temperature. 2.Ripple & Noise are measured at 20MHz of bandwidth by using a 300mm twisted pair-wire terminated with a 0.1uF & 47 uF parallel capacitor. 3.Output current can be 700mA or from 300mA to 600mA and increasing in multiples of 50mA. Please see Model list below and contact EAGLERISE for details.					

■Model list

NO.	Model number	Input			Output			Max. Prated(W)
		Voltage (VAC)	Current (A)	Frequency (Hz)	Constant current (mA)	Normal working voltage (VDC)	No load working voltage (VDC)	
1	LS-20-300 LI2	220-240	0.15	50/60	300	48-70	80	21
2	LS-20-350 LI2	220-240	0.15	50/60	350	40-60	70	21
3	LS-20-400 LI2	220-240	0.12	50/60	400	30-45	55	18
4	LS-20-450 LI2	220-240	0.14	50/60	450	30-45	55	20.3
5	LS-20-500 LI2	220-240	0.15	50/60	500	28-42	50	21
6	LS-20-550 LI2	220-240	0.16	50/60	550	28-42	50	23.1
7	LS-20-600 LI2	220-240	0.15	50/60	600	24-35	45	21
8	LS-20-700 LI2	220-240	0.15	50/60	700	20-30	40	21

■2D diagram



**■Descriptions of change**

ITEM	BEFORE	AFTER	VERSION	DATE
Initial			1.0.0	2018-9-6



# CERTIFICATE

Issued to:  
Applicant:  
**Eaglerise Electric & Electronic (China) Co., Ltd.**  
**No. A3, Guicheng Sci-Tech Industrial Park,**  
**Jianping Road, Nanhai District,**  
**Foshan City, Guangdong Province, China**

Licensee:  
**Eaglerise Electric & Electronic (China) Co., Ltd.**  
**Beijiao Branch**  
**No.4, East Huanzhen Road,**  
**Beijiao Shunde,**  
**528000 Foshan, Guangdong, China**

Product : LED drivers  
Trade name(s) : **EAGLERISE**  
Type(s)/model(s) : **LS-20-xxx LI2, LS-16-700 LI1-GL**

The product and any acceptable variation thereto is specified in the Annex to this certificate and the documents therein referred to.

DEKRA hereby declares that the above-mentioned product has been certified on the basis of:

- a type test according to the standard EN 61347-1:2015, EN 61347-2-13:2014/A1:2017, EN 61347-2-13:2014, EN 62384:2006 and EN 62384:2006/A1:2009
- an inspection of the production location according to CENELEC Operational Document CIG 021
- a certification agreement with the number 2178803

DEKRA hereby grants the right to use the ENEC certification mark.

The ENEC certification mark may be applied to the product as specified in this certificate for the duration of the ENEC certification agreement and under the conditions of the ENEC certification agreement.

This certificate is issued on 14 November 2018 and expires upon withdrawal of one of the above mentioned standards.

Certificate number: 35-106335

DEKRA Certification B.V.



drs. G.J. Zoetbrood  
Managing Director



Kate Xu  
Certification Manager

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DUTCH ACCREDITATION  
COUNCIL



**SPECIFICATION OF THE CERTIFIED PRODUCT****Product data**

Product	: LED drivers
Trade name(s)	: EAGLERISE
Type(s)/model(s)	: LS-16-700 LI1-GL, LS-20-300 LI2, LS-20-350 LI2, LS-20-400 LI2, LS-20-450 LI2, LS-20-500 LI2, LS-20-550 LI2, LS-20-600 LI2 and LS-20-700 LI2
Rated voltage	: 220-240 V~
Rated frequency	: 50/60 Hz
Class of insulation	: Class II
Degree of protection	: IP20
Ambient temperature (ta)	: 45 °C
Max. case temperature (tc)	: 75 °C
Description	: SELV, independent type, non-Inherently short-circuit proof, overload protection, 110 °C overheat protection

**Product data – type LS-16-700 LI1-GL**

Input current	: Max. 0,11 A
Output voltage	: 14-23 Vdc, Max. 34 Vdc
Output current	: 700 mA constant current
Output wattage	: 16,1 W Max.

**Product data – type LS-20-300 LI2**

Input current	: Max. 0,15 A
Output voltage	: 48-70 Vdc, Max. 80 Vdc
Output current	: 300 mA constant current
Output wattage	: 21 W Max.

**Product data – type LS-20-350 LI2**

Input current	: Max. 0,15 A
Output voltage	: 40-60 Vdc, Max. 70 Vdc
Output current	: 350 mA constant current
Output wattage	: 21 W Max.

**Product data – type LS-20-400 LI2**

Input current	: Max. 0,12 A
Output voltage	: 30-45 Vdc, Max. 55 Vdc
Output current	: 400 mA constant current
Output wattage	: 18 W Max.

**Product data – type LS-20-450 LI2**

Input current	: Max. 0,14 A
Output voltage	: 30-45 Vdc, Max. 55 Vdc
Output current	: 450 mA constant current
Output wattage	: 20,3 W Max.

**Product data – type LS-20-500 LI2**

Input current	: Max. 0,15 A
Output voltage	: 28-42 Vdc, Max. 50 Vdc
Output current	: 500 mA constant current
Output wattage	: 21 W Max.



**Product data – type LS-20-550 LI2**

Input current : Max. 0,16 A  
Output voltage : 28-42 Vdc, Max. 50 Vdc  
Output current : 550 mA constant current  
Output wattage : 23,1 W Max.

**Product data – type LS-20-600 LI2**

Input current : Max. 0,15 A  
Output voltage : 24-35 Vdc, Max. 45 Vdc  
Output current : 600 mA constant current  
Output wattage : 21 W Max.

**Product data – type LS-20-700 LI2**

Input current : Max. 0,15 A  
Output voltage : 20-30 Vdc, Max. 40 Vdc  
Output current : 700 mA constant current  
Output wattage : 21 W Max.

**TESTS****Test requirements**

EN 61347-1:2015  
EN 61347-2-13:2014/A1:2017  
EN 61347-2-13:2014  
EN 62384:2006  
EN 62384:2006/A1:2009

**Test result**

The test results are laid down in DEKRA test file 434862100.

**Additional information**

Model Reference

LS-20-xxx LI2:

“xxx” is for the output current and represents the number from 300 to 700 increasing in multiples of 50, for example, 700 means the output current is 700 mA.

The list of components is laid down at test report 4348621.50.

**Conclusion**

The examination proved that all requirements were met.

**Factory location**

Eaglerise Electric & Electronic (China) Co., Ltd. Beijiao Branch  
No.4, East Huanzhen Road,  
Beijiao Shunde,  
528000 Foshan, Guangdong, China

Trade name(s) : EAGLERISE stands for





# ATTESTATION OF CONFORMITY



Issued to: Eaglerise Electric & Electronic (China) Co., Ltd.  
No. A3, Guicheng Sci-Tech Industrial Park, Jianping Road, Nanhai District,  
Foshan City, Guangdong Province, China

For the product: LED drivers

Trade name: 

Type/Model: LS-20-xxx LI2, LS-16-700 LI1-GL  
"xxx" is for the output current and represents the number from 300 to 700 increasing in multiples of 50, for example, 700 means the output current is 700 mA.

Ratings: Class II, SELV, ta: 45 °C, tc: 75 °C, independent type, non-Inherently short-circuit proof, overload protection, 110 °C overheat protection;  
PRI: 220-240 V~, 50/60 Hz, 0,16 A Max, PF: 0,9C;  
SEC: 300-700mA constant current, 14-70 Vdc, Max. 23,1 W;  
(Detailed information refers to model list of test report)

Manufactured by: Eaglerise Electric & Electronic (China) Co., Ltd. Beijiao Branch  
No. 4, East Huanzhen Road, Beijiao Shunde, Foshan, Guangdong 528000, China

Requirements: EN 61347-1:2015  
EN 61347-2-13:2014 + A1:2017

This Attestation is granted on account of an examination by DEKRA, the results of which are laid down in test report no. 4348621.50.

This Attestation implies that the examined types are in accordance with the standards designated under the Low Voltage Directive (LVD) 2014/35/EU.

The examination has been carried out on one single specimen or several specimens of the product, submitted by the manufacturer. The Attestation does not include an assessment of the manufacturer's production. Conformity of his production with the specimen tested by DEKRA is not the responsibility of DEKRA.

Guangzhou, 15 November 2018

Number: 4348621.01AOC

DEKRA Testing and Certification (Shanghai) Ltd.,  
Guangzhou Branch

Miranda Zhou  
Certification Manager

© Integral publication of this attestation and adjoining reports is allowed

The CE marking may be affixed on the product if all relevant and effective EC directives are complied with



IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT  
(IECEE) CB SCHEME

## CB TEST CERTIFICATE

Product	LED drivers
Name and address of the applicant	Eaglerise Electric & Electronic (China) Co., Ltd. No. A3, Guicheng Sci-Tech Industrial Park, Jianping Road, Nanhai District, Foshan City, Guangdong Province China
Name and address of the manufacturer	Eaglerise Electric & Electronic (China) Co., Ltd. Beijiao Branch No. 4, East Huanzhen Road, Beijiao Shunde, Foshan, Guangdong 528000 China
Name and address of the factory	<input type="checkbox"/> Additional information on page 2 Eaglerise Electric & Electronic (China) Co., Ltd. Beijiao Branch No. 4, East Huanzhen Road, Beijiao Shunde, Foshan, Guangdong 528000 China
Note: When more than one factory, please report on page 2	
Ratings and principal characteristics	Class II, SELV, ta: 45 °C, tc: 75 °C, independent type, non-Inherently short-circuit proof, overload protection, 110 °C overheat protection; PRI: 220-240 V~, 50/60 Hz, 0,16 A Max, PF: 0,9C; SEC: 300-700mA constant current, 14-70 Vdc, Max. 23,1 W; (Detailed information refers to model list of test report)
Trademark (if any)	
Customer's Testing Facility (CTF) Stage used	
Model / Type Ref.	LS-20-xxx LI2, LS-16-700 LI1-GL "xxx" is for the output current and represents the number from 300 to 700 increasing in multiples of 50, for example, 700 means the output current is 700 mA.
Additional information (if necessary may also be reported on page 2)	<input type="checkbox"/> Additional information on page 2
A sample of the product was tested and found to be in conformity with	IEC 61347-1:2015, IEC 61347-2-13:2014, IEC 61347-2-13:2014/AMD1:2016 <u>National differences:</u> EU Group Differences, EU Special National Conditions, AU, NZ
As shown in the Test Report Ref. No. which forms part of this Certificate	4348621.50

This CB Test Certificate is issued by the National Certification Body

DEKRA Certification B.V.  
Meander 1051, NL-6825 MJ Arnhem, Netherlands