

SPECIFICATION FOR APPROVAL

CUSTOMER:		
CUSTOMER P/N:		$\langle\!\langle\!\cdot\!\rangle$
OUR MODEL NO .:_	HA-DLIx	xxBF-CCX
APPROVAL NO.:	HA-DLI>	xxBF-CCX
DATE: 2022-4-25		
(COUSTOME	R APPROVAL):	
(TESTED)	(CHECKED)	(APPROVAL)
(HAHGA APF	PROVAL)	
(TESTED)	(CHECKED)	(APPROVAL)

Manufacturer: Zhongshan Hahga Technology Co.,Ltd

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E.C.N LIST

Rev.	Description of Change	Change Date
V1	Origin	2022.4.25
V2.1	Add D4i function	2023.2.5
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1.Product Picture



2. Driver Structure:

⊠ PC	□ Metal	□ Aluminum
☑ Isolated SELV	□ No-Isolated	
☑ IP20	□ IP67	
☑ Flicker free		
Non-Dimming	☑ Dimmable: DALI-2	D4i PUSH
□ No switchable	☑ Smart Switchable By:	DIP

Warranty : 5 Years



3. Electrical datasheet

No.	Model No.	Input Voltage (V) Rate.	Input Voltage (V) Max.	Input Frequency (Hz)	Input Current Max (A)	Power Factor (Max Load) (%)	T.H.D (Max Load) (%)	Inrush Current (A)
1	HA-DLI015BF-CCX	220-240VAC 220-240VDC	264Vdc	0/50/60	0.1	>0.9	<10%	1.55A/ 30us
2	HA-DLI030BF-CCX	220-240VAC 220-240VDC	264Vdc	0/50/60	0.2	>0.9	<15%	4A/ 25us-
3	HA-DLI044BF-CCX	220-240VAC 220-240VDC	264Vdc	0/50/60	0.3	>0.9	<15%	5.6A/ 50us

3.1 Output Datasheet

		Output	Output	Output	Efficiency		DIP		
No.	No. Model No. Wattage (W)	Current (mA) ±5%	Voltage (Vdc)	(Max Load) (%)	1	2		3	
		5.2	100	2.5-52	81		-		-
		7.8	150	2.5-52	81	-	-		ON
		10.4	200	2.5-52	81		ON		-
1	HA-DLI015BF-	12.5	250	2.5-52	85	-	ON		ON
	ССХ	15	300	2.5-50	85	ON	-		-
		14.7	350	2.5-42	85	ON	-		ON
		14.8	400	2.5-37	85	ON	ON		-
		14.85	450	2.5-33	85	ON	ON		ON
		20.8	400	2.5-52	86	-	-		-
		23.4	450	2.5-52	86	-	-		ON
		26	500	2.5-52	86	-	ON		-
2	HA-DLI030BF-	28.6	550	2.5-52	86	-	ON		ON
2	CCX	30	600	2.5-50	86	ON	-		-
		29.9	650	2.5-46	87	ON	-		ON
		29.4	700	2.5-42	87	ON	ON		-
		30	750	2.5-40	88	ON	ON		ON
						1	2	3	4
		15.6	300	6-52	87	-	-	-	-
		18.2	350	6-52	87	-	-	-	ON
		20.8	400	6-52	87	-	-	ON	-
3		23.4	450	6-52	87	-	-	ON	ON
	007	26	500	6-52	87	-	ON	-	-
		28.6	550	6-52	87	-	ON	-	ON
		31.2	600	6-52	87	-	ON	ON	-

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	33.8	650	6-52	87	-	ON	ON	ON
	36.4	700	6-52	87	ON	-	-	-
	39	750	6-52	87	ON	-	-	ON
	41.6	800	6-52	87	ON	-	ON	-
	41.7	850	6-49	88	ON	-	ON	ON
	44.1	900	6-49	88	ON	ON	-	-
	43.7	950	6-46	88	ON	ON	-	ON
	44	1000	6-44	88	ON	ON	ON	-
	44.1	1050	6-42	88	ON	ON	ON	ON

3.2 Product Specification

No. Model No.		Dimension(mm)			Corton cizo(mm)	Pcs/	Carton
NO	Model No.	Length	Width	Height	Calton size(mm)	Carton	Weight(kg)
1	HA-DLI015BF-CCX	145	33	21	303*225*120	48	4.1
2	HA-DLI030BF-CCX	160	43	21	335*225*145	50	6
3	HA-DLI044BF-CCX	170	65	30	353*335*220	60	12

3.3 Specification Datasheet

	Item	
	Output Type	Constant Current
	Dimming Type	DALI-2 PUSH
Feeturee	Dimming Range	1-100%
Features	IP Grade	IP20
	Insulation Class	Class II SELV
	Support function	Corridor dimming (corridor DIM)
	Poted Input Voltage	AC220-240V
	Rated input voltage	DC220-240V
	Pango input Valtago	AC198-250V
Innut	Nange input voltage	DC198-250V
input	Rated input Frequency	0/50/60Hz
	Power Factor@ full load	0.9
	THD@full load%	<15%
	No-load power consumption	<0.5W
	Input Line Ripple	±5%
	Output Line Ripple	±5%
	PstLM	<1
Output	SVM	<0.4
	Max Output Voltage	60Vdc
	Power on time	<0.7s

4. Environmental Specification

Item	Min.	Rated	Max.	Unit
Operating Temperature	-20	1	+50	°C

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			(+45 for 44W)		
Operating Humidity	10	/	90	%RH	
Storage Temperature	-40	25	+80	°C	
Storage Humidity	5	/	90	%RH	
Driver Lifeenen (<40\)		At Tc≤75°C:50,000hrs;			
Driver Litespan(<40W)	At Tc≤65°C:100,000hrs;@230Vac				
Driver Lifeenen (> 40\4/)	At Tc≤85°C:50,000hrs;				
Driver Litespan(>40W)	At Tc≤75°C:100,000hrs;@230Vac				
May Ta Tamparatura			75	°C	
Max TC Temperature		6	(85for 44W)	U U	
Protection					

5. Protection

Item	Remark
Short Circuit Protection	Burp,Auto-recover
Over-Voltage Protection	>320Vdc
Over-Power Protection	>17W / 35W / 50W
No-Load Protection	Auto-recover
Over-heat Protection	Auto-recover,Tc<90°C
Electric Strength	I/P-O/P: 3.75 kVac, < 5 mA 60 sec; I/P-DA/P: 0.5 kVac, < 5 mA
Electric Strength	60 sec;O/P-DA/P: 1.5 kVac, < 5 mA 60 sec
Leakage Current	0.25mAmax. at 240Vac / 50Hz input
Insulation Resistance	100MΩ min. @ primary to secondary add 500Vdc test voltage
Surge	L-N:1KV
6 Reliability Specification	

6. Reliability Specification

Item	Remark			
Aging	Full load 100% Burn-in,minimum of 2 Hours			
Warranty	ower life of 50 $^\circ C$ at the ambient temperature of 5 years (50000hours)			
MTBF Qualification	he MTBF shall be at least 50,000hours at 25 $^\circ\!\!\!\mathrm{C}$, Full load and nominal input condition			
	Conduction Emission			
	GB17743 CLASS B *CISPR15 CLASS B			
EMI/EMS standards	Radiated Emission			
	GB17743 CLASS B *CISPR15 CLASS B			
	EN55015/EN61000-3-3 part15 standards			
	EN 61000-3-2 Harmonic current emissions			
	EN 61000-3-3 Voltage fluctuations & flicker			
	EN 61000-4-3 Radio-Frequency Electromagnetic Field Susceptibility Test-RS			
	EN 61000-4-4 Electrical Fast Transient/Burst-EFT			
EMS Standards	EN 61000-4-5 Surge Immunity Test: AC Power Line: line to line1kV			
	EN 61000-4-6 Conducted Radio Frequency Disturbances Test-CS			
	EN 61000-4-8 Power Frequency Magnetic Field Test			
	EN 61000-4-2 Electrostatic Discharge(ESD):±8kVair discharge,±4kV contact discharge			
	EN61547 standards			
Regulatory Standards	EN 61347-2-13:2014/AMD1:2017			



	EN61347-1:2015
Notice	The luminaire manufacturer is responsible for measuring and verifying EMI compliance of the complete
	luminaire as the level of radio interference will vary depending on the luminaire construction. Especially
	primary and secondary cable lengths and their routing may have a significant effect on radio interference.
	For Push-dim function: please follow up our instruction which can be downloaded from
	HahgaPushDimManual



7. Parametric Graph



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8. Outline Drawing and Dimension











10. Wiring instructions



1.All connections must be kept as short as possible to ensure good EMI behaviour

2. Mains leads should be kept apart from LED Driver and other leads (ideally5-10cm distance)

3.Advice the maximum length of output wires is 3m

4.Secondary switching is not permitted (Except for constant voltage)

5.Incorrect wiring can damage LED modules.

6. The wiring must be protected against short circuits to earth(sharp edged metals parts, metal cable clips,louver,etc.)

11. Caution

- 1. This product should be installed by electric engineer.
- 2. For Multi-funtion Product DALI/ Push-DIM /0-10V DIM/ PWM / Triac functions can not be used at the same time.
- 3. The IP20 product is non waterproof, need to avoid sun and rain. In case of outdoor use, please ensure it is mounted in a water proof enclosure.
- 4. Good heat dissipation conditions extend product life. Please install the product in a well-ventilated environment.
- 5. Please make sure LED power supply output voltage, current is used to meet the product requirements.
- 6. Due to safety concerns, PVC or rubber cord of 0.75-1.5mm2is recommended for input and output terminal(s) (excluding signal terminals).Flat power cord is

not suitable. Ensure all wire connections and polarities are correct before applying power to avoid any damages to the LED lights.

- 7. Please ensure that adequate sized cable is used from the controller to the LED lights to carry the current. Please also ensure that the cable is secured tightly in the connector.
- 8. In case of malfunction. do not repair it yourself.
- 9. For Push-dim function: please follow up our instruction which can be downloaded from HahgaPushDimManual

12. Quality Assurance:

- 11.1 Guaranty is 5 years under normal operation.But out of responsible for below cases:
 - The maximum failure rate of the same batch in 5 years is not more than 3%. The company only assumes the cost of product maintenance.
 - ▼Repairing without permission which lead to the destroy.
 - ▼Any change or modification.
 - ▼Incorrect operation or use.
 - ▼The damage is lead by in normal environment conditions.
 - ▼Destroy deliberately.
 - ▼The damage caused by irresistible natural disasters.



11.2 Repairing range:

Under warranty, if the fail is caused by bad material or manufacture, we will supply free replacement or repair which including labor service and component change.

11.3 Safety instructions

In any case, such as, operation, cleaning or maintenance, please obey the following the required safety rules. If the operation is beyond the security concerns of design, we won't be responsible.

- ▼Do not work in a volatile gas or flammable environment.
- ▼In any case, do not remove the case or touch the inner component.
- ▼For safety, do not carry out internal maintenance and components replacement.
- ▼ The use of power should be specified in the specification of environmental conditions.