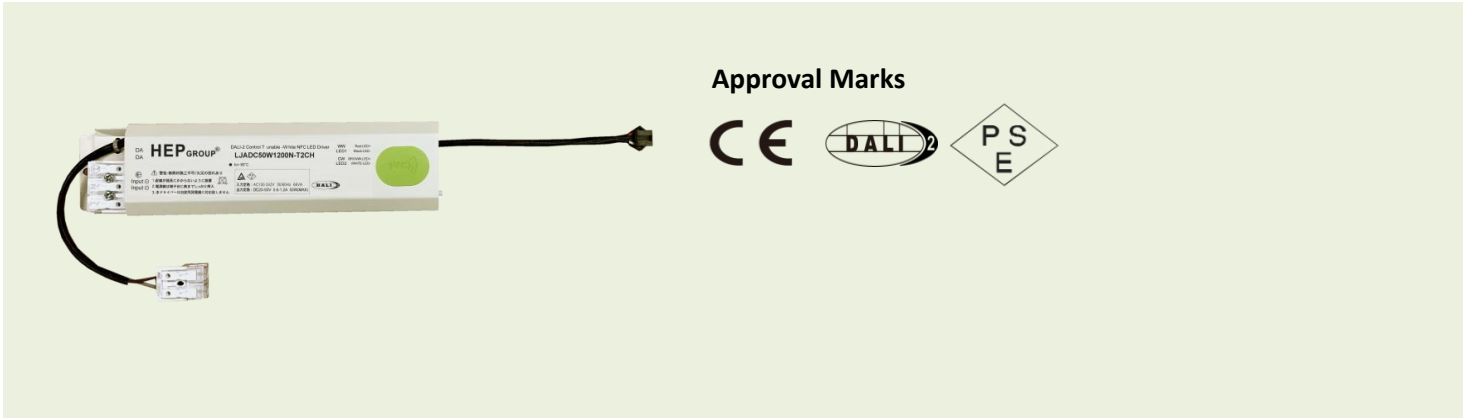




LED Electrical Specification for LJADC50W1200N-T2CH

DALI-2 Control Tunable-White NFC LED Driver



		Item	Value	Remark
Input		Nominal voltage	100–242V	
		Nominal frequency	47–63Hz	
		AC voltage range	90–267V	
		DC voltage range (start)	NA	
		DC voltage range (operation)	NA	
		Maximum voltage	NA	
		Nominal current	620mA	Full load @100VAC
		Total Harmonic Distortion (THD)	< 10%	Full load @100VAC
			< 15%	Full load @200VAC
		Power factor	0.95	Full load @100VAC
		Displacement factor	0.95	Full load @100VAC
		Efficiency	86% (Typ.)	Full load @100VAC
		No-load power	NA	
		Stand-by power	< 0.3W	
		Protection class	I	Suitable for class I luminaires
		Inrush current	60A / 30uS	Full load @267VAC
		Earth leakage current	<0.7mA	
Output		Nominal voltage range		
		600-1000mA	20-50Vdc	
		1050mA	20-48Vdc	
		1100mA	20-46Vdc	
		1150mA	20-44Vdc	
		1200mA	20-42Vdc	
		Maximum voltage	63 Vdc	
		Output channels	2	
		Nominal current range	600-1200mA	Adjusted via NFC program
				Factory default 600mA
		Current accuracy	± 5%	@25°C
		Typical output LF current ripple	± 2.5%	Low Frequency< 120Hz Full load @200VAC
		Nominal power range	12-50W	
		Maximum power	50W	
		Color tuning range	2000-10000K	Adjusted via NFC program Factory default 2000-10000K
		Start up time	<1s	Full load @100VAC

Dimming	Item	Value		Remark	
	Dimming control	DALI	Touch-Dim		
	Dimming range	0.1-100%	5-100%	see the dimming curve	
	Lowest dimming current	0.05-0.15%	2-8%	@Vo=35Vdc	
	Dimming technique	Hybrid Dimming		O/P current ≥ 50 mA operated @ Amplitude mode O/P current < 50 mA operated @ PWM mode	
	PWM frequency	500 Hz			
Galvanic isolation		Basic insulated to PRI and double insulated to SEC			
Environment	Item	Value		Remark	
	Ambient temperature range t _a	-20°C - +50°C			
	Maximum case temperature t _c	80°C			
	Max. case temp. in fault condition	110°C		When operating under fault conditions, the temperature of the enclosure at any location should not exceed 110 °C	
	Storage temperature range	-40°C - +85°C			
	Relative humidity	10% - 95%			
	Surge transient protection	1kV , 2kV		L/N , L-PE/N-PE	
	Environmental rating	Indoor			
	IP rating	IP20			
	Mains switching cycles	>100,000			
	Expected lifetime	> 50,000 h,tc 80°C @ ta 50 °C		0.2 % / 1,000 h failure rate	
	Dimension LxWxH	224.2x50.4x41mm / Ø max. 60mm			
	Packing	Gross weight/box	kg		
Net weight/box		kg			
Pcs/box		20 PCS			
Dimension/box		385(L)*310(W)*260(H)mm			
Protections					
Short-circuit Protection		Auto recovery			
Open-circuit Protection		Auto recovery			
Overload Protection		Auto recovery			
Conformity & Standards					
Safety standard:		EN 61347-1, EN 61347-2-13, EN 62493			
Performance:		EN 62384			
EMC standard:		EN 55015, EN 61000-3-2, EN 61000-3-3, EN 61547			
DALI protocol standard:		EN62386-101 , EN62386-102 , EN 62386-207(DT6),EN 62386-209 (DT8)/ DALI2			
Cable and Terminal information					
PRI Connection					
Terminal		L/N/GND - WAGO 294-113			
Cable cross-section		0.5-2.5□/AWG 18-12			
Stripping		9mm			
Sec Connection					
LED1+		LED1-	LED2+	LED2-	
Color		Red	Black	Brown	White
Wire type		1430	1430	1430	1430
Wire diameter		AWG20	AWG20	AWG20	AWG20
Wire length		175mm	175mm	175mm	175mm
Terminal		SMP-04V-BC+SHF-001T-0.8BS (JST)			

DALI/Touch Dim	Connection	DA	DA
	Color	Purple	Gray
	Wire type	7022	7022
	Wire diameter	AWG20	AWG20
	Wire length	125mm	125mm
	Terminal	WAGO 294-4032	
	Cable cross-section	0.5-2.5□/AWG 18-12	
	Stripping	9mm	

Subject to change without notice, HEP guarantees all products perform functionally well

■Current adjustable

Output current/Color temperature can be adjusted by NFC reader and APP

NFC Reader (optional)

Feature:

Easily on-line read a output current from a driver or write a new current data to a driver throughout HEP NFC reader within few seconds.



NFC APP

Feature:

Quickly check output current of a LED driver simply via Android smart phone, as well as, correct or setup a new current data immediately with no extra equipment at any job site.

ICON

Main

Keep NFC emission of smart phone closed to NFC antenna of LED driver
Touch instantly to tune output current and/or color temperature



QR Code

Google play

APK



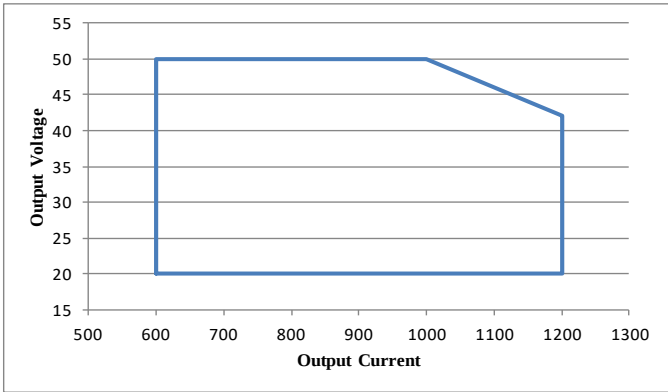
Android 4.2 Up
Smart phone with a NFC function

Output Current (mA)	Output Voltage Range (V)	Output Power Range (W)
1200	20-42	24.0-50.0
1150	20-44	23.0-50.0
1100	20-46	22.0-50.0
1050	20-48	21.0-50.0
1000	20-50	20.0-50.0
950	20-50	19.0-47.5
900	20-50	18.0-45.0
850	20-50	17.0-42.5
800	20-50	16.0-40.0
750	20-50	15.0-37.5
700	20-50	14.0-35.0
650	20-50	13.0-32.5
600	20-50	12.0-30.0

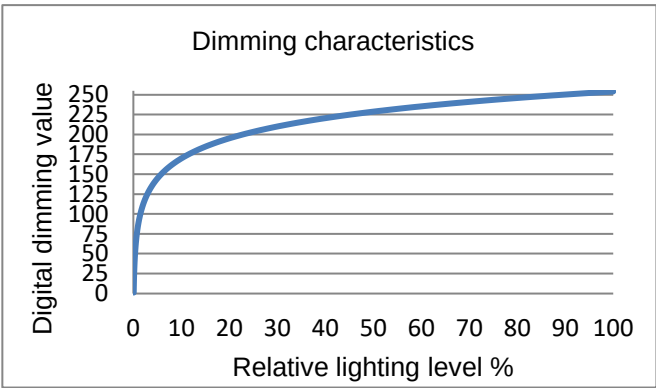
* Upon client's special demand, customized current range in between 600 mA and 1200 mA could be specified as factory default from shipment. This default current range availably revised again via NFC reader program at client's site, if necessary.

V/I Curve

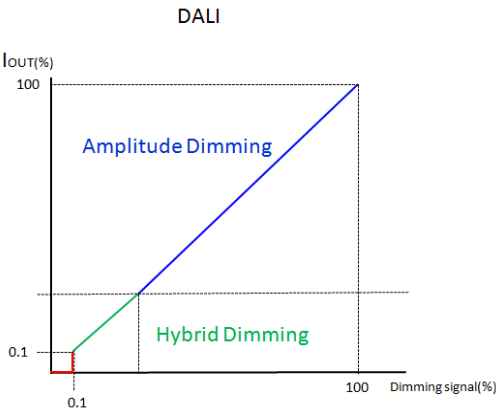
Output Power Range

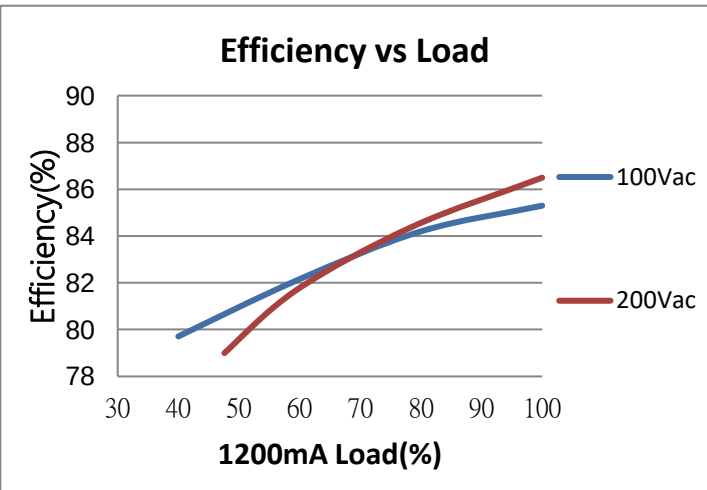
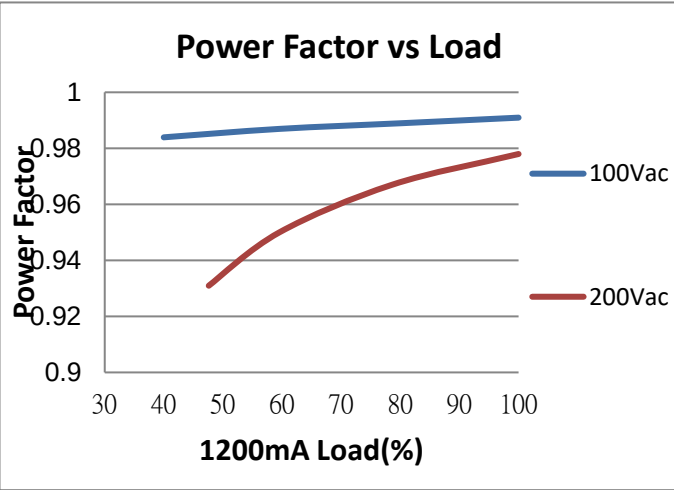
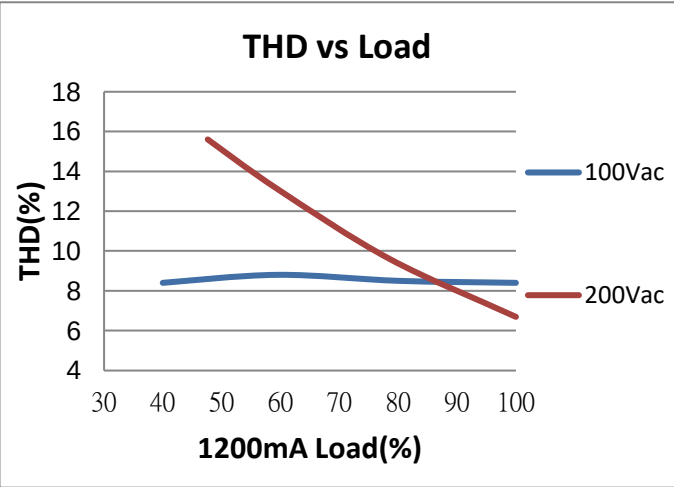


DALI Curve

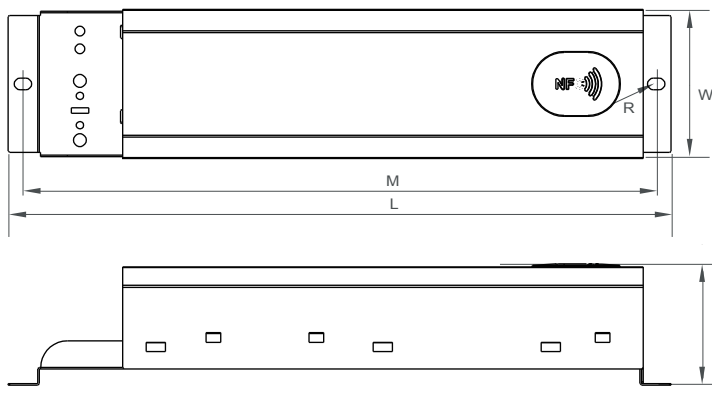


Dimming Curve





Physical Parameter



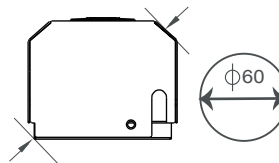
L : 224.2 mm H : 41 mm
M : 214.2 mm R : 2 mm
W : 50.4 mm

Tolerance : ± 1 mm , R : ± 0.5 mm

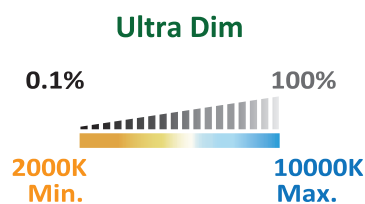
Housing Material : Metal, No Sharp Edges

Soldering : Lead - Free, Comply With RoHS

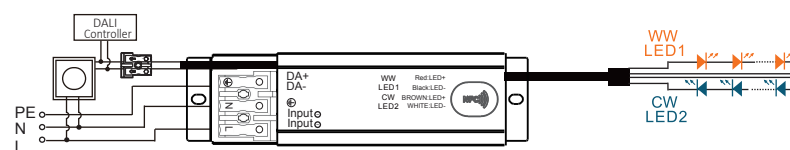
Label : Surface Print



DALI DT8 connection

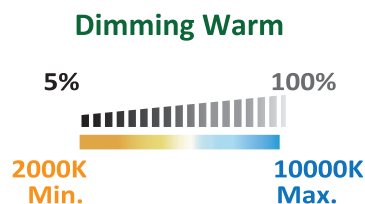


DALI TW Dimmer

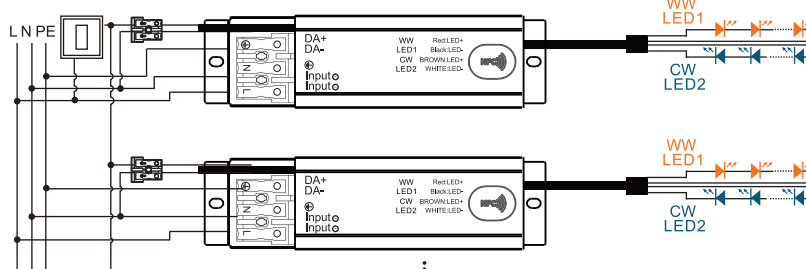


Dimming up/down and CCT tuning are performed independently via DALI DT8 dimmer

Touch Dim connection



Push Switch

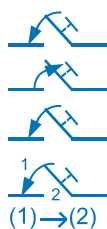


"Dimming Warm" via push switch performs dimming up/down and CCT tuning in synchronization, i.e., dimming from max. 100% of cool color continuously down to min. 5% of warm color

Remark:

1. Single push switch made parallel connection of maximum 10 pcs of DALI LED drivers in one time.

Touch Dim



Step 1: Long push (> 0.6 s) until all lamps are switched on the lowest dimming setting level of LED driver.

Step 2: Continuously long push to dim all lights up synchronizely until the desired level, then release push bottom to stop at present light level.

Step 3: Or make long push again for dimming all lights down synchronizely to the desired level, then stop pushing bottom.

Step 4: Short push (< 0.6 s) to make all lamps are switched off.

Step 5: Short push (< 0.6 s) - Push to turn ON/OFF all lamps at the latest setting light level.

Remark: Maximum 10m of cable length from LED driver connecting to light source for DALI/Touch Dim

Maximum cable length of Touch Dim from push switch to LED drivers is 20m.

Single push switch makes parallel connection of max. 10 pieces of LED drivers in one time.