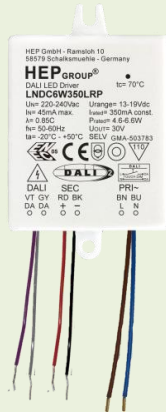




Electrical Specification for **LNDC6WxxxLRP** DALI LED Driver



Approval Marks



	Item	Value	Remark
Input	Nominal voltage	220–240V	
	Nominal frequency	50–60Hz	
	AC voltage range	198–264V	
	DC voltage range (start)	NA	
	DC voltage range (operation)	NA	
	Nominal current		
	LNDC6W120LRP	25mA	
	LNDC6W150LRP	30mA	
	LNDC6W200LRP	40mA	
	LNDC6W250LRP	35mA	
	LNDC6W300LRP	40mA	
	LNDC6W350LRP	45mA	
	Total Harmonic Distortion (THD)	< 30%	Full load @230VAC
	Power factor	0.85C	Full load @230VAC
	Efficiency	77%(Typ.)	Full load @230VAC
No-load power	NA		
Stand-by power	<0.5W		
Protection class	NA		
Inrush current	35 A / 2 μs		
Earth leakage current	NA		
Output	Nominal voltage range		
	LNDC6W120/150/200LRP	15-30 Vdc	
	LNDC6W250/300/350LRP	13-19 Vdc	
	Maximum voltage		
	LNDC6W120/150/200LRP	40Vdc	
	LNDC6W250/300/350LRP	30Vdc	
	Nominal current range		
	LNDC6W120LRP	120mA	
	LNDC6W150LRP	150mA	
	LNDC6W200LRP	200mA	
LNDC6W250LRP	250mA		
LNDC6W300LRP	300mA		
LNDC6W350LRP	350mA		

	Item	Value	Remark
Output	Current accuracy		
	LND6W300/350LRP	± 5%	
	LND6W120/150/200/250LRP	± 8%	
	Typical output LF current ripple	12%	Low Frequency<120Hz
	Nominal power range		
	LNDC6W120LRP	1.8-3.6W	
	LNDC6W150LRP	2.3-4.5W	
	LNDC6W200LRP	3-6W	
Dimming	LNDC6W250LRP	3.3-4.7W	
	LNDC6W300LRP	3.9-5.7W	
	LNDC6W350LRP	4.6-6.6W	
	Maximum power	6W	
	Dimming control	DALI/Touch Dim	
	Dimming technique	Amplitude	
	PWM frequency	NA	
	Dimming range	5-100%	
Environment	Lowest dimming current	1-8%	
	Galvanic isolation	Basic insulated to PRI and double insulated to SEC	
	Ambient temperature range t_a	-20°C...+50°C	
	Maximum case temperature t_c	70°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	1 KV	L/N
Packing	Environmental rating	Indoor	
	IP rating	IP20	
	Mains switching cycles	> 100,000	
	Expected lifetime	> 50,000 h, t_c 70 °C @ t_a 50 °C > 100000 h, t_c 60 °C @ t_a 40 °C	0.2 % / 1,000 h failure rate @ t_c 70 °C 0.1 % / 1,000 h failure rate @ t_c 60 °C
	Gross weight/Carton	9.1 Kg	
	Net weight/Carton	8.2 Kg	
	Pcs/Carton	96 PCS	
	Dimension/Carton	395(L)*350(W)*215(H)mm	
Protections			
Short- & open circuit proof, Auto. overheat regulation or cut off, Overload protection			
Conformity & Standards			
Safety standard:	EN 61347-1, EN 61347-2-13, EN 62493		
Performance:	EN 62384		
SAA standard:	AS/NZS 61347.1, AS/NZS IEC 61347.2.13		
EMC standard:	EN 55015, EN 61000-3-2, EN 61000-3-3, EN 61547		
DALI protocol standard:	EN 62386-101, EN 62386-102, EN 62386-207		

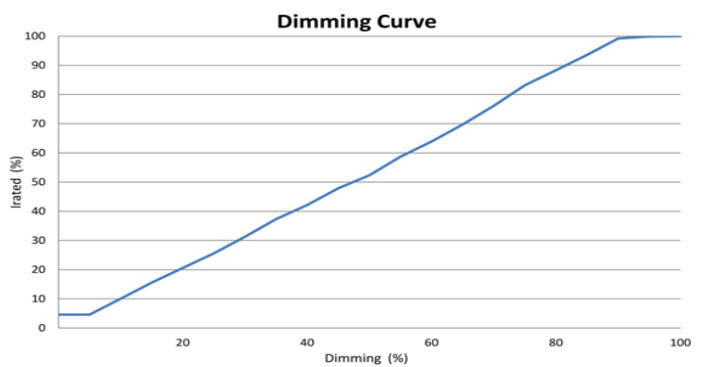
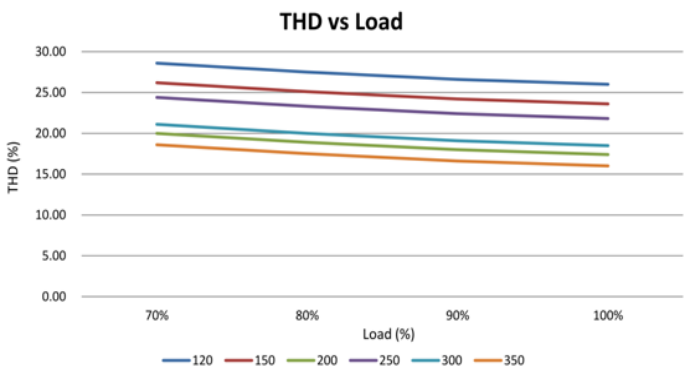
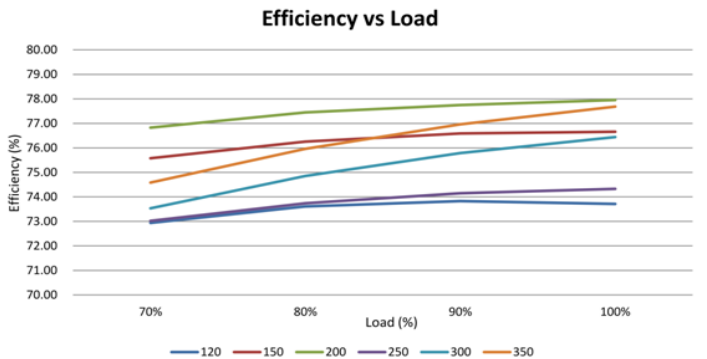
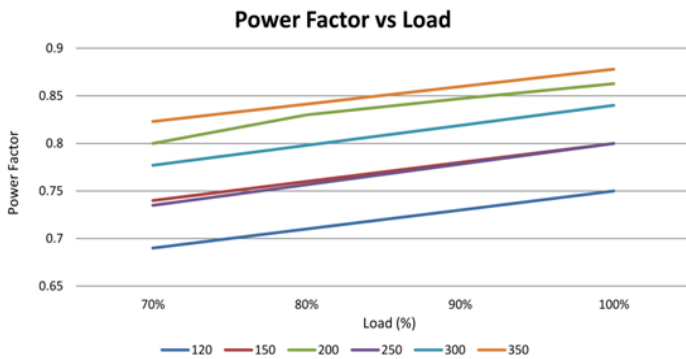
Cable information

PRI Connection	L	N
Color	Brown	Blue
Wire type	7022	7022
Wire diameter	AWG18	AWG18
Wire length	138mm	141mm
Stripping	6mm	6mm

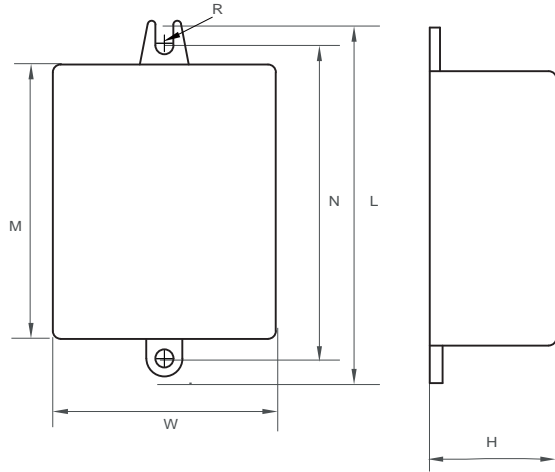
Sec Connection	+	-
Color	Red	Black
Wire type	1332	1332
Wire diameter	AWG22	AWG22
Wire length	140mm	141mm
Stripping	6mm	6mm

DALI/Touch Dim Connection	DA	DA
Color	Purple	Gray
Wire type	7022	7022
Wire diameter	AWG20	AWG20
Wire length	131mm	134mm
Stripping	10mm	10mm

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



Physical Parameter



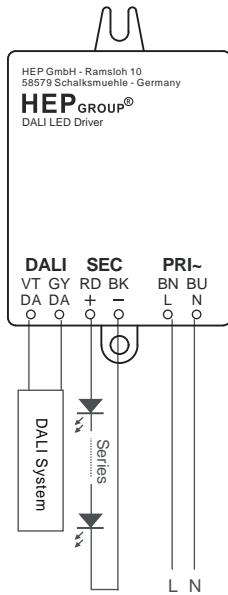
L : 69.3 mm W: 43.5 mm
 M: 53.5 mm H: 24.6 mm
 N: 61 mm R: 1.75 mm

Tolerance : +/-1 mm , R : +/-0.5 mm

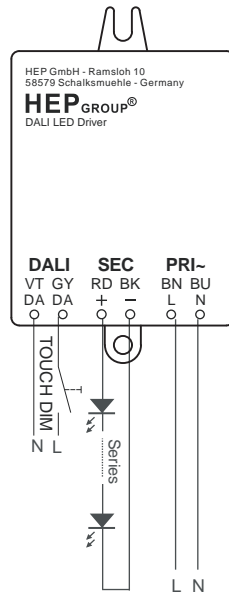
Housing Material : Polycarbonate/Potting
 Soldering : Lead-Free, Comply With RoHS
 Label : Surface Print

Wiring Diagram

DALI



TOUCH DIM



*** Touch Dim**

Short push (<0.6sec.) Push to turn ON-OFF
 Long push (>0.6sec.) Dimming up or down

Synchronization of Touch DIM

If a large number of driver with Touch Dim is operated in a system there is a chance that an driver will operate out of synchronization with the others(= different dimming level setting or different switching state).

Synchronism can be restored as follows:

- 1.Step: Long push all the lamps are switched on
- 2.Step: Short push all the lamps are switched off
- 3.Step: Long push all the lamps are switched on the minimum dimming setting of the drivers and continuously fade up to the desired dimming level, then release push bottom.

Max. lead length : 20 M
 Max. parallel units : 15 pcs