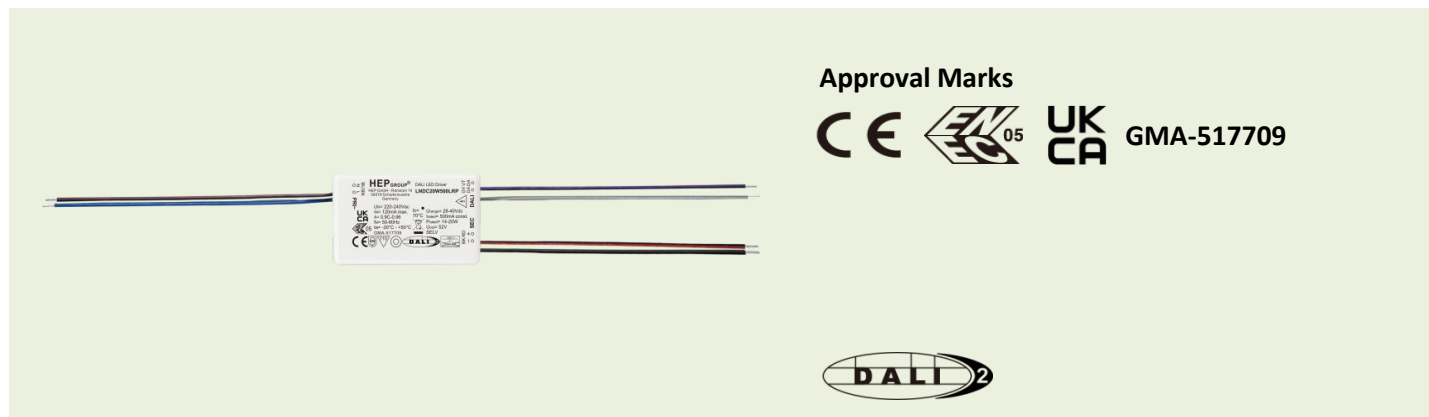




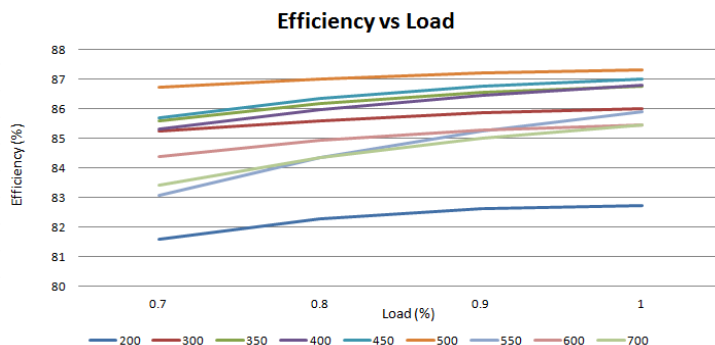
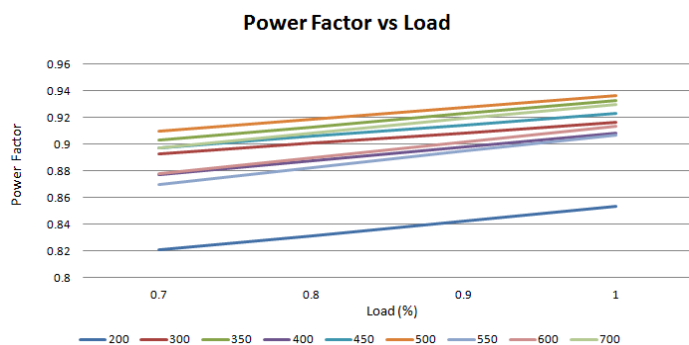
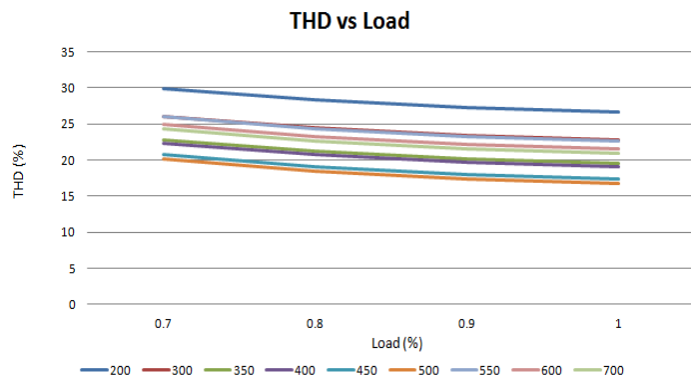
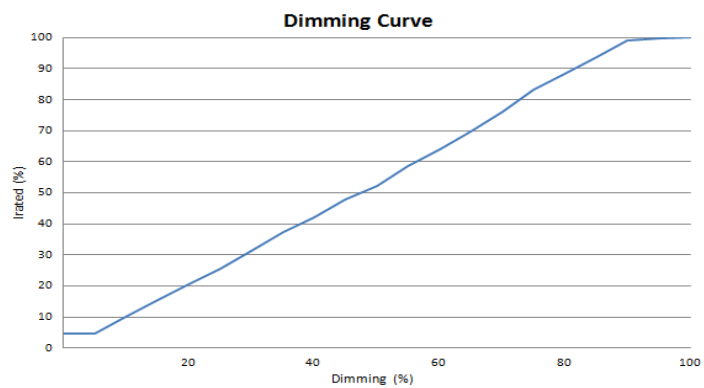
Item		Value	Remark
Nominal voltage		220–240V	
Nominal frequency		50–60Hz	
AC voltage range		198–264V	
DC voltage range (start)		NA	
DC voltage range (operation)		NA	
Nominal current			
Input	LNDC20W300LRP	105mA	
	LNDC20W350LRP	120mA	
	LNDC20W400LRP	95mA	
	LNDC20W450LRP	110mA	
	LNDC20W500LRP	120mA	
	LNDC20W550LRP	100mA	
	LNDC20W600LRP	105mA	
	LNDC20W700LRP	125mA	
	Total Harmonic Distortion (THD)	< 25%	Full load @230VAC
	Power factor		Full load @230VAC
Input	LNDC20W300/350/550/600LRP	0.87-0.94C	
	LNDC20W400LRP	0.85-0.92C	
	LNDC20W450LRP	0.88-0.94C	
	LNDC20W500LRP	0.9C-0.96	
	LNDC20W700LRP	0.86-0.94C	
Displacement factor			Full load @230VAC
Input	LNDC20W300/350/550/600LRP	0.87-0.94C	
	LNDC20W400LRP	0.85-0.92C	
	LNDC20W450LRP	0.88-0.94C	
	LNDC20W500LRP	0.9C-0.96	
	LNDC20W700LRP	0.86-0.94C	
Efficiency		80% (Typ.)	Full load @230VAC
No-load power		NA	
Stand-by power		< 0.5W	
Protection class		NA	
Inrush current		10 A / 30 us	
Max.units per circuit breaker	Type B , 10A MCB	32	
	Type B , 16A MCB	51	
	Type C , 10A MCB	40	
	Type C , 16A MCB	64	
Touch current		< 0.7mA peak	IEC/EN 61347-1

	Item	Value	Remark
Output	Nominal voltage range		
	LNDC20W300/350LRP	40-58 Vdc	
	LNDC20W400/450/500LRP	28-40 Vdc	
	LNDC20W550/600/700LRP	20-29 Vdc	
	Maximum voltage		
	LNDC20W200/300/350LRP	65Vdc	
	LNDC20W400/450/500LRP	52Vdc	
	LNDC20W550/600/700LRP	37Vdc	
	Nominal current range		
	LNDC20W300LRP	300mA	
	LNDC20W350LRP	350mA	
	LNDC20W400LRP	400mA	
	LNDC20W450LRP	450mA	
	LNDC20W500LRP	500mA	
	LNDC20W550LRP	550mA	
	LNDC20W600LRP	600mA	
	LNDC20W700LRP	700mA	
	Current accuracy	± 5%	Full load @230VAC
	Typical output LF current ripple	± 5%	Low Frequency< 120Hz Full load @230VAC
	Starting time	< 0.5 S	Full load @230VAC
Dimming	SVM	≤ 0.4	Full load @230VAC
	P _{st} LM	≤ 1	Full load @230VAC
	Nominal power range		
	LNDC20W300LRP	12.0-17.4W	
	LNDC20W350LRP	14.0-20.3W	
	LNDC20W400LRP	11.2-16.0W	
	LNDC20W450LRP	12.6-18.0W	
	LNDC20W500LRP	14.0-20.0W	
	LNDC20W550LRP	11.0-15.9W	
	LNDC20W600LRP	12.0-17.4W	
Environment	LNDC20W700LRP	14.0-20.3W	
	Maximum power	20W	
	Dimming control	DALI/Touch Dim	
	Dimming technique	Amplitude	
	PWM frequency	NA	
	Dimming range	5-100%	
	Lowest dimming current	4-8%	
	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		t _a = 50 °C
	LNDC20W300/350LRP	75°C	
	LNDC20W400/450/500LRP	70°C	
	LNDC20W550/600/700LRP	75°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 , 2KV	L/N , L-PE/N-PE
	Environmental rating	Indoor	
	IP rating	IP20	

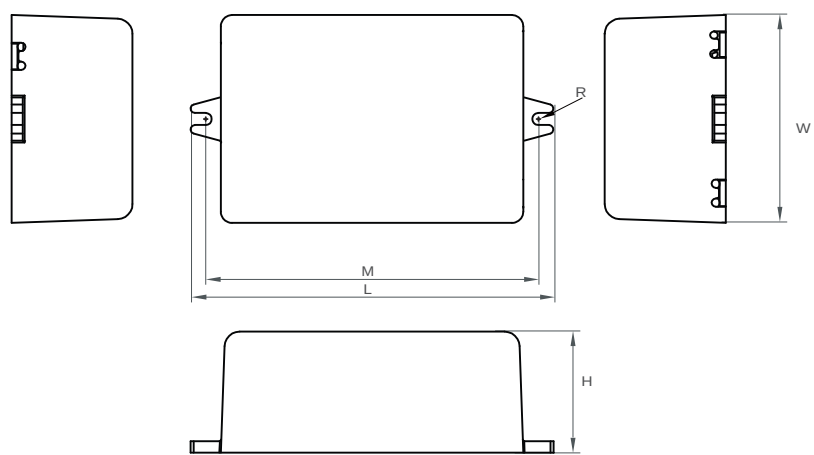
Item		Value	Remark
Environment	Mains switching cycles	> 100,000	
	Expected lifetime		
	LNDC20W300/350LRP	> 50,000 h, tc 75 °C @ ta 50 °C >100000 h, tc 65 °C @ ta 40 °C	0.2 % / 1,000 h failure rate @ tc 75 °C 0.1 % / 1,000 h failure rate @ tc 65 °C
	LNDC20W400/450/500LRP	> 50,000 h, tc 70 °C @ ta 50 °C >100000 h, tc 60 °C @ ta 40 °C	0.2 % / 1,000 h failure rate @ tc 80 °C 0.1 % / 1,000 h failure rate @ tc 70 °C
	LNDC20W550/600/700LRP	> 50,000 h, tc 75 °C @ ta 50 °C >100000 h, tc 65 °C @ ta 40 °C	0.2 % / 1,000 h failure rate @ tc 75 °C 0.1 % / 1,000 h failure rate @ tc 65 °C
Packing	Gross weight/Carton	10.1 kg	
	Net weight/Carton	9 kg	
	Pcs/Carton	72 PCS	
	Dimension/Carton	490(L)*270(W)*225(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	
SAA standard:		AS/NZS 61347.1, AS/NZS IEC 61347.2.13	
CCC standard:		GB17625.1,GB/T17743,GB19510.1,GB19510.14	
EMC standard:		EN 55015, EN 61000-3-2, EN 61000-3-3, EN 61547:2023	
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	130mm	128mm
	Stripping	6mm	6mm
	Tolerance	±5mm	±5mm
Sec	Connection	+	-
	Color	Red	Black
	Wire type	3385	3385
	Wire diameter	AWG22	AWG22
	Wire length	141mm	138mm
	Strip length	6mm	6mm
	Tolerance	±5mm	±5mm
DALI/Touch Dim	Connection	DA	DA
	Color	Purple	Gray
	Wire type	7022	7022
	Wire diameter	AWG20	AWG20
	Wire length	141mm	141mm
	Stripping	10mm	10mm
	Tolerance	±5mm	±5mm

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

* If not mentioned, all the test conditions are based on full load at 230VAC input (for 220-240 VAC input).



Physical
Parameter

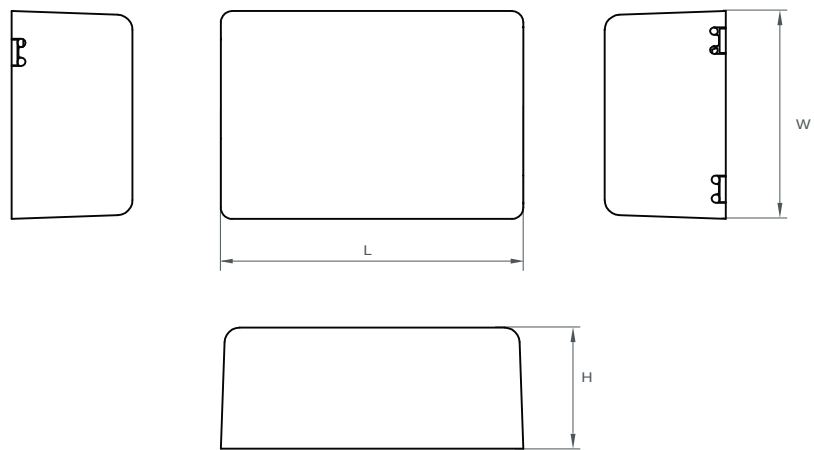


L : 88 mm M : 80.3 mm R : 1.6 mm

W: 45 mm H : 25 mm

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

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



L : 73 mm H : 25 mm

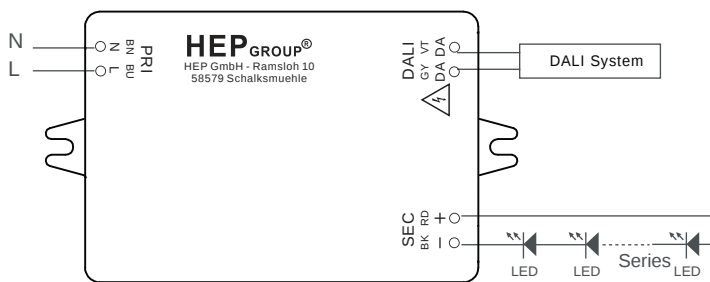
W: 45 mm

Tolerance : +/-1 mm

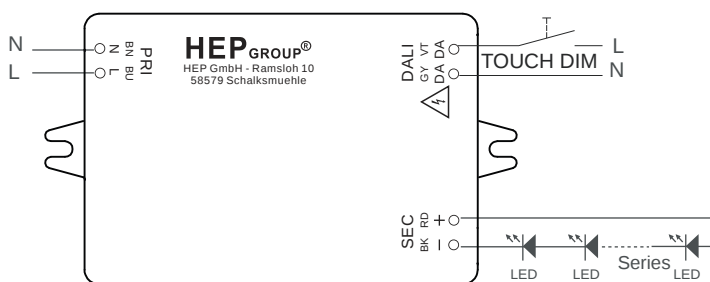
Housing Material : Polycarbonate
Soldering : Lead-Free, Comply With RoHS
Label : Surface Print

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