

Item	Value	Remark
Nominal voltage	220–240V	
Nominal frequency	50–60Hz	
AC voltage range	198–264V	
DC voltage range	180-300V	Fixed output light at 15%
Nominal current	120mA	Full load @ 230VAC
Total Harmonic Distortion (THD)	< 10%	Full load @ 230VAC
Power factor	0.4C-0.94C	Min-load @ 240Vac and Full-load @ 220 Vac
Displacement factor	0.4C-0.94C	Min-load @ 240Vac and Full-load @ 220 Vac
Efficiency	84% (Typ.)	Full load @ 230VAC
No-load power	NA	
Stand-by power	< 0.5W	@ 230Vac when DALI turn off
Networked standby power	NA	
Protection class	II	Suitable for class II luminaires
Inrush current	13 A / 30 $\mu$ s	Full load @ 230VAC
Max.units per circuit breaker	Type B , 10A MCB	33
	Type B , 16A MCB	53
	Type C , 10A MCB	42
	Type C , 16A MCB	67
Earth leakage current	NA	
Output	Nominal voltage range	
	@ 150mA	12-50Vdc
	@ 200/250/300/350mA	6-50Vdc
	@ 400/450mA	6-42Vdc
	@ 500mA	6-40Vdc
	Maximum voltage	60Vdc
	Nominal current range	
	@ 150mA	150mA
	@ 200mA	200mA
	@ 250mA	250mA
	@ 300mA	300mA
	@ 350mA	350mA
@ 400mA	400mA	
@ 450mA	450mA	
@ 500mA	500mA	

	Item	Value	Remark
Output	Current accuracy		Full load @ 230Vac
	@150mA	±10%	
	@200mA	±9%	
	@250mA	±6%	
	@300/350//400/450/500mA	±5%	
	Typical output LF current ripple	± 5%	Low Frequency < 120Hz Full load @ 230VAC
	SVM	≤0.4	Full load @ 230VAC
	PstLM	≤1	Full load @ 230VAC
	Starting time	< 0.8S	Full load @ 230VAC
	Nominal power range		
@150mA	1.8-7.5W		
@200mA	1.2-10.0W		
@250mA	1.5-12.5W		
@300mA	1.8-15.0W		
@350mA	2.1-17.5W		
@400mA	2.4-16.8W		
@450mA	2.7-18.9W		
@500mA	3-20.0W		
Maximum power	20W		
Dimming control	DALI / Touch Dimming		
Dimming technique	Hybrid Dimming	O/P current ≥ 35% operated @ Amplitude mode O/P current < 35% operated @ PWM mode	
PWM frequency	2KHz		
Dimming range			
DALI Dimming	1-100%		
Touch Dimming	2-100%		
Lowest dimming current			
DALI Dimming	0.5-2%		
Touch Dimming	1-4%		
Galvanic isolation	The insulation between DALI and primary circuit is basis isolated and to the secondary circuit is double or reinforced insulation.		
Ambient temperature range t <sub>a</sub>	-20°C - +50°C		
Maximum case temperature t <sub>c</sub>	90°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 - +80°C		
Relative humidity	85%		
Surge transient protection	2kV	L/N	
Environmental rating	Indoor		
IP rating	IP20		
Mains switching cycles	> 10,000		
Expected lifetime	> 50,000 h, t <sub>c</sub> 90 °C @ t <sub>a</sub> 50 °C	0.2 % / 1,000 h failure rate	
	> 100000 h, t <sub>c</sub> 80 °C @ t <sub>a</sub> 40 °C	0.1 % / 1,000 h failure rate	
Gross weight/box	7.7 kg		
Net weight/box	6.57 kg		
Pcs/box	60 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
Performance:	EN 62384
EMC standard:	EN55015, EN61547, EN61000-3-2, EN61000-3-3
DALI protocol standard:	IEC62386-102, IEC62386-207

## Cable information

### PRI Connection

Cable cross-section	0.5-1.5□/AWG 20-16
Stripping	9mm

### Sec Connection

Cable cross-section	0.5-1.5□/AWG 20-16
Stripping	9mm

## Terminal information

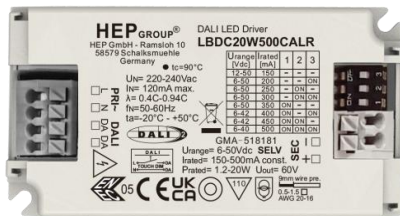
### PRI-Push button

### SEC-Push button

### DALI-Push button

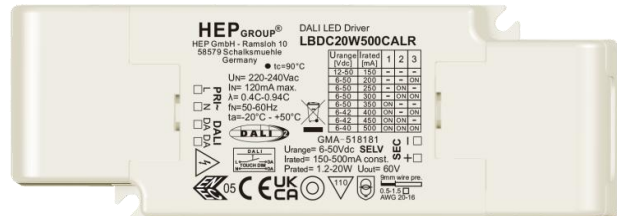
\* If not mentioned, all the test conditions are based on full load at 230VAC input (for 220-240 VAC input).

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



**Built-in type**

Order number: LBDC20W500CALR



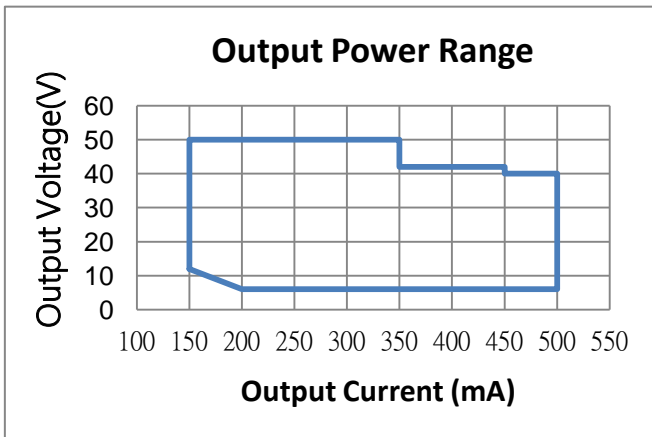
**Independent type**

Order number: LBDC20W500CALRZ

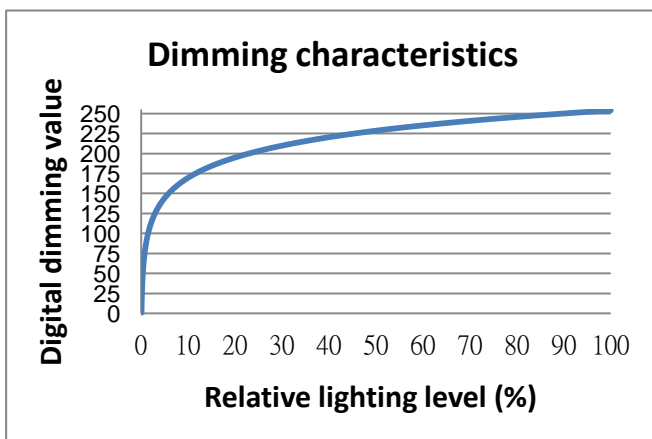
## Electrical Values

Output Current (mA)	Output Voltage Range (V)	Output Power Range (W)
500	6-40	3.0 - 20.0
450	6-42	2.7 - 18.9
400	6-42	2.4 - 16.8
350	6-50	2.1 - 17.5
300	6-50	1.8 - 15.0
250	6-50	1.5 - 12.5
200	6-50	1.2 - 10.0
150	12-50	1.8 - 7.5

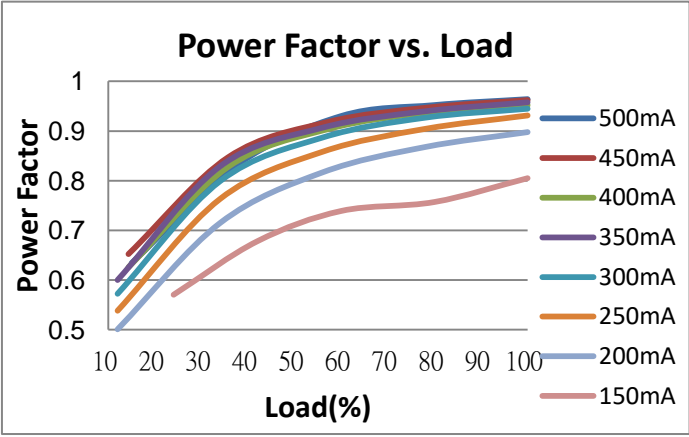
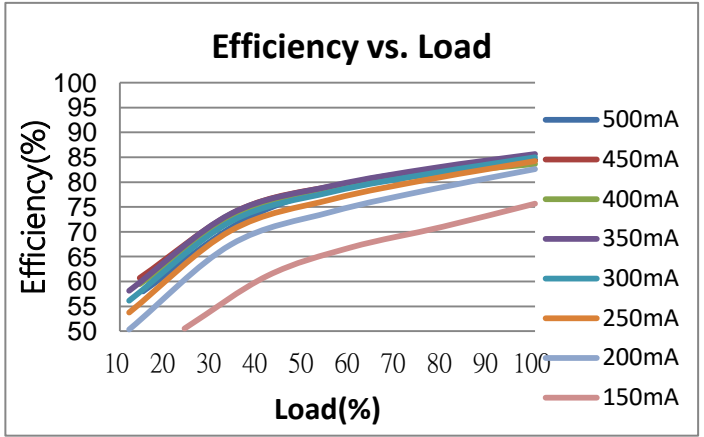
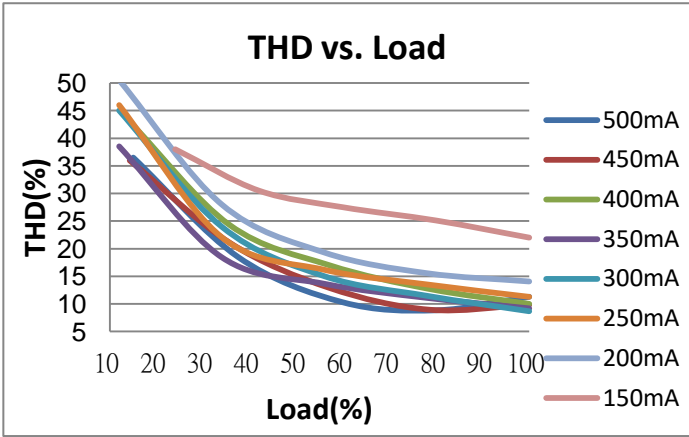
## V/I Curve



## DALI Curve

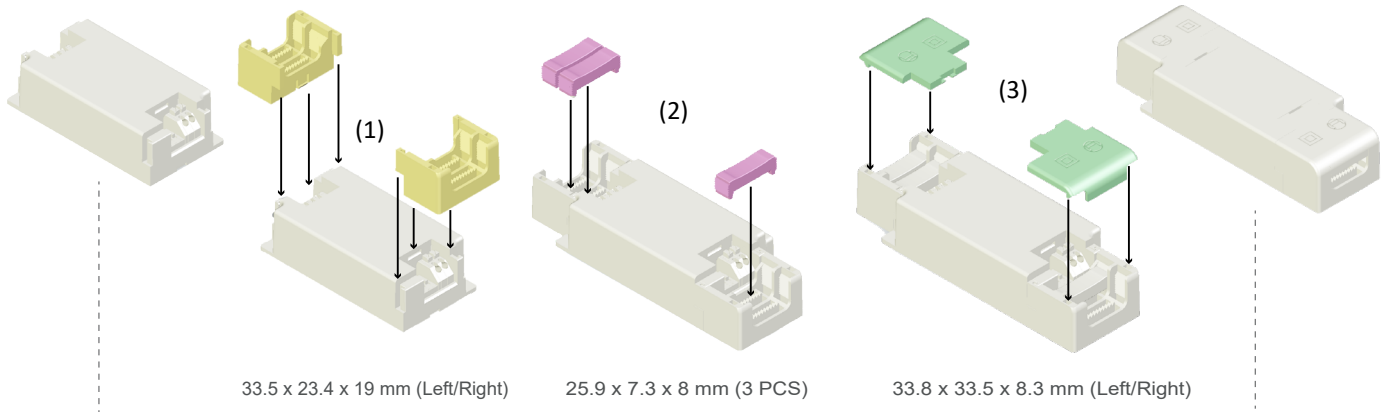


**Electrical Values**



**Physical**  
Parameter

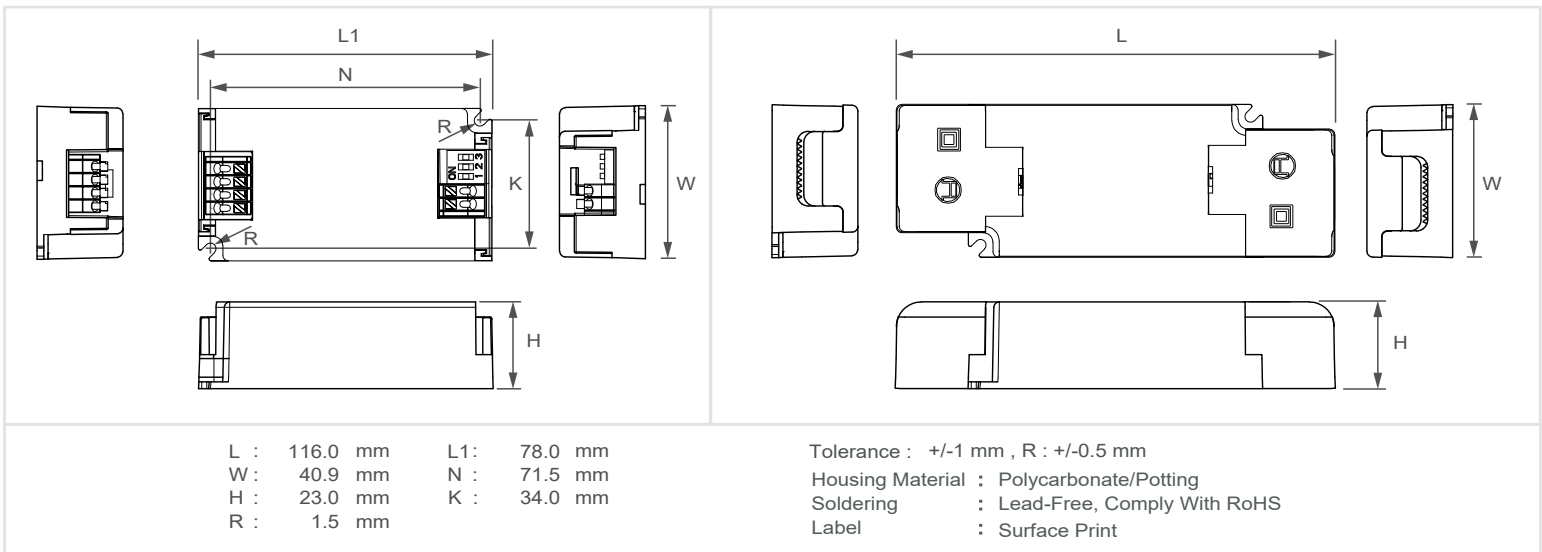
▼ By adding side covers the built-in type simply easy as an independent unit.



33.5 x 23.4 x 19 mm (Left/Right)

25.9 x 7.3 x 8 mm (3 PCS)

33.8 x 33.5 x 8.3 mm (Left/Right)

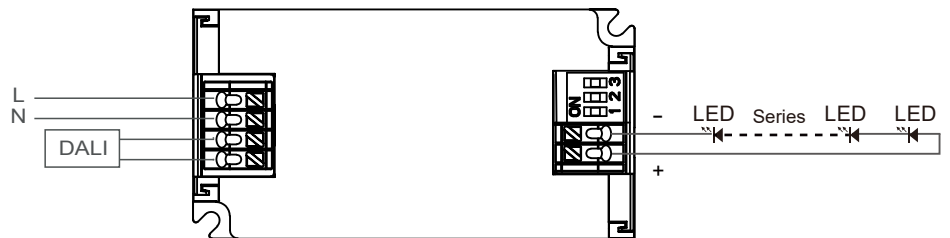


**Dip Switch -**  
One driver offers 8 choosable output current



Current	Dip-switch setting		
	1	2	3
500 mA	ON	ON	ON
450 mA	ON	ON	-
400 mA	ON	-	ON
350 mA	ON	-	-
300 mA	-	ON	ON
250 mA	-	ON	-
200 mA	-	-	ON
150 mA	-	-	-

**WiringDiagram**  
DALI system



**TOUCH DIM**

