

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		
Input	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 μs	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	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.	
Environment	Ambient temperature range t _a	-20°C - +50°C	
	Maximum case temperature t _c	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 _c 90 °C @ t _a 50 °C > 100000 h, t _c 80 °C @ t _a 40 °C	0.2 % / 1,000 h failure rate 0.1 % / 1,000 h failure rate
Packing	Gross weight/box	11.6 / 17.1 kg	Built-in / Independent
	Net weight/box	10.5 / 16.1 kg	Built-in / Independent
	Pcs/box	108 / 126 PCS	Built-in / Independent
	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

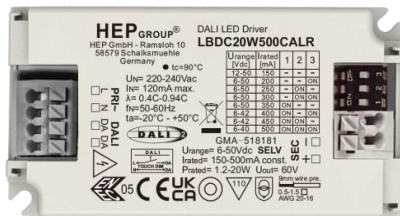
PRI-Push button

SEC-Push button

DALI-Push button

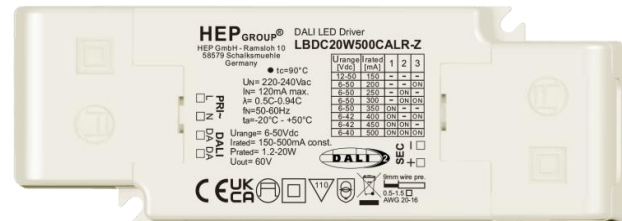
* If not mentioned, all the test conditions are based on full load at 230VAC input (for 220-240 VAC input).

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



Built-in type

Order number: LBD20W500CALR



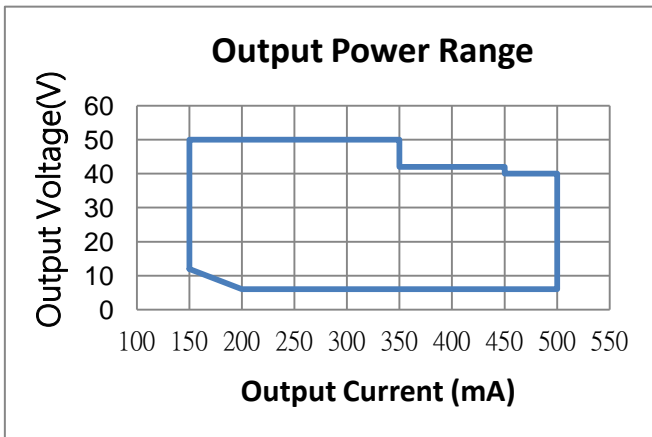
Independent type

Order number: LBD20W500CALRZ

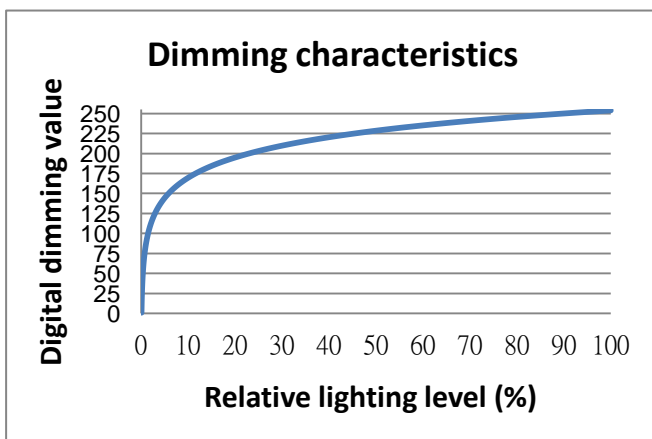
Electrical Values

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

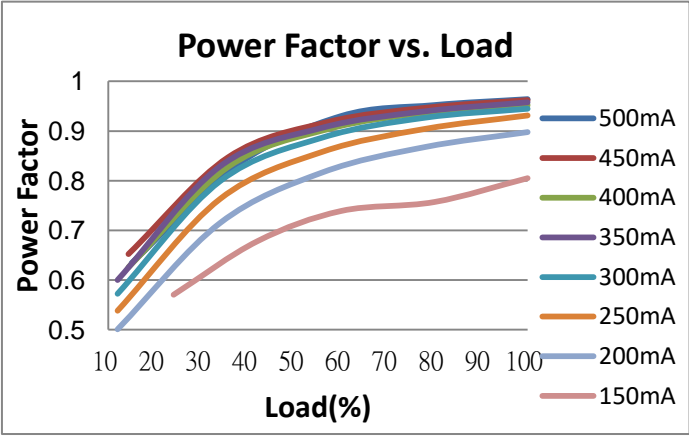
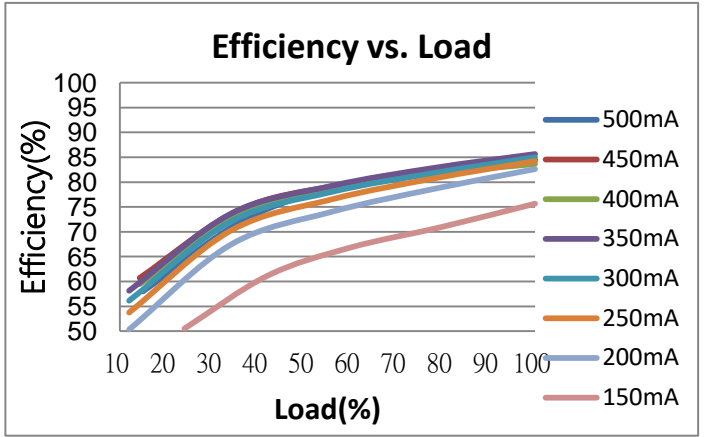
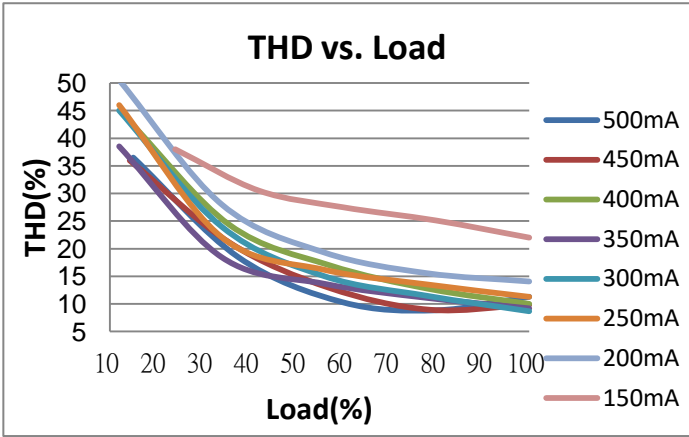
V/I Curve



DALI Curve

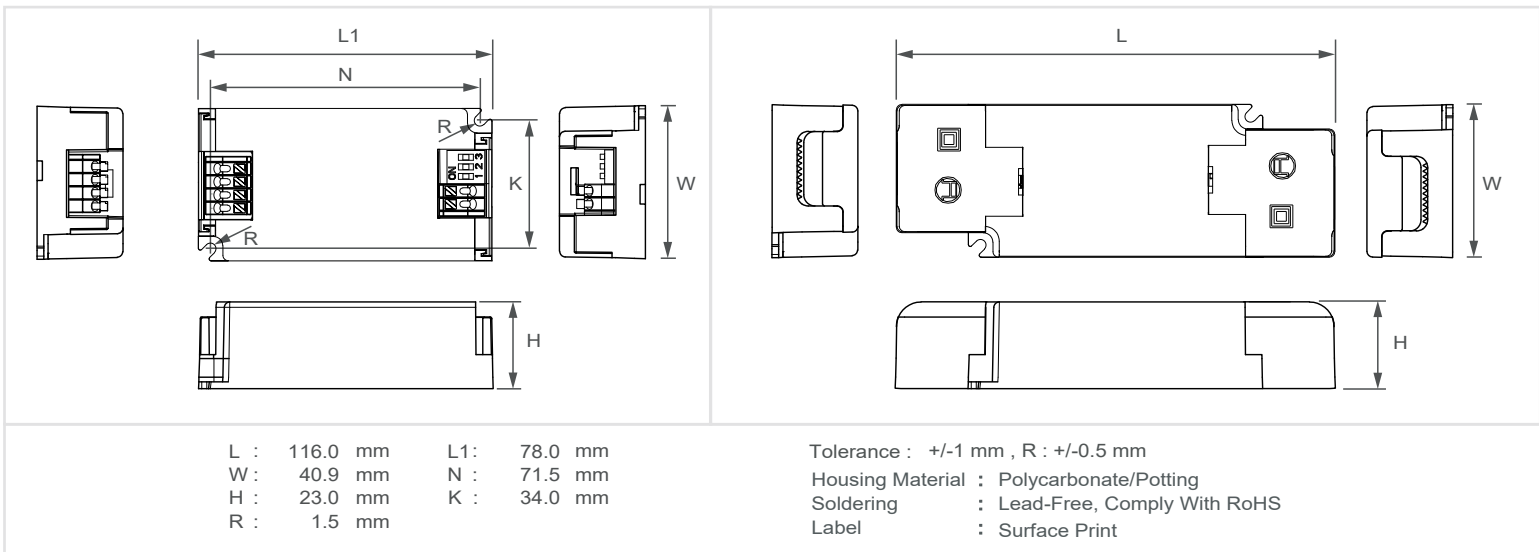
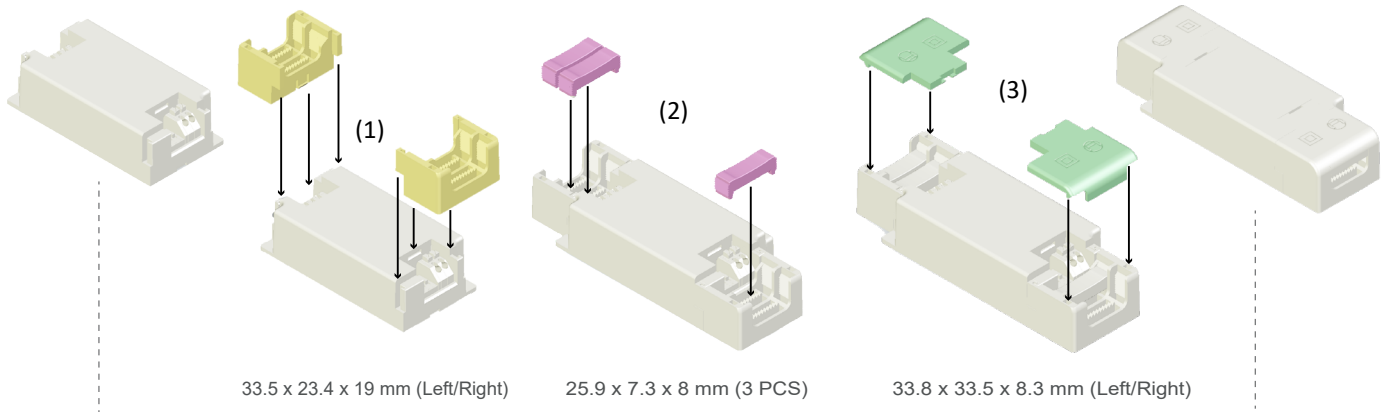


Electrical Values



Physical
Parameter

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

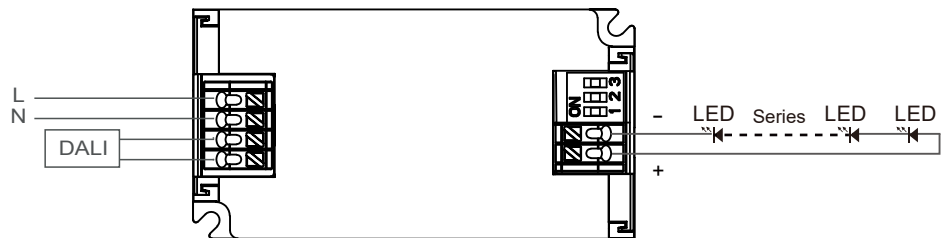


Dip Switch -
One driver offers 8 choosable output current



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

