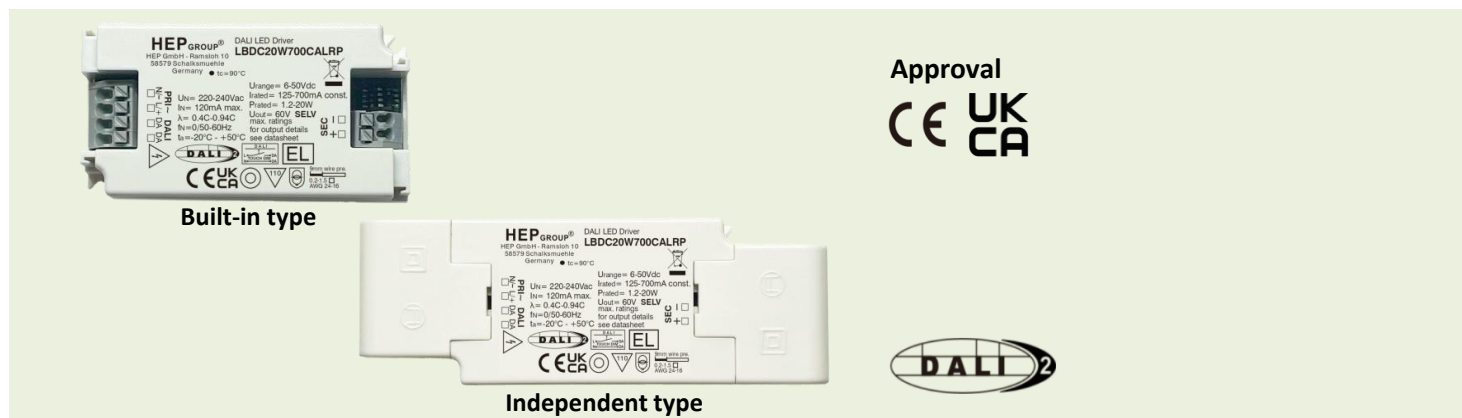




Item		Value	Remark	
Input	Nominal voltage	220–240V		
	Nominal frequency	0/50–60Hz		
	AC voltage range	198–264V		
	DC voltage range	180-300V	Fixed output light at 15%	
	Nominal current	120mA	Full load @ 230VAC	
	Total Harmonic Distortion (THD)	< 10%	Full load @ 230VAC	
	Power factor	0.4C-0.94C	Min-load @ 240Vac and Full-load @ 220 Vac	
	Displacement factor	0.4C-0.94C	Min-load @ 240Vac and Full-load @ 220 Vac	
	Efficiency	83% (Typ.)	Full load @ 230VAC	
	No-load power	NA		
	Stand-by power	< 0.5W	@ 230Vac when DALI turn off	
	Networked standby power	< 0.5W	@ 230Vac when DALI turn off	
	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	
Touch current	< 0.7mA peak	IEC/EN 61347-1		
Output	Nominal voltage range			
	125/175mA	12-50Vdc		
	200/250/275/325/350/400mA	6-50Vdc		
	425/475mA	6-42Vdc		
	500mA	6-40Vdc		
	550mA	6-36Vdc		
	575/625/650mA	6-30Vdc		
	700mA	6-28Vdc		
	Maximum voltage	60Vdc		
	Nominal current range	125mA-700mA		

	Item	Value	Remark
Output	Current accuracy		
	125/175mA	±10%	Full load @ 230Vac
	200/250/275/325/350/400/425mA 475/500/550/575/625/650/700mA	±5%	Full load @ 230Vac
	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 for AC power ON
		< 0.5S	Full load @ 230VAC for DALI control
	Nominal power range		
	125mA	1.5-6.2W	
	175mA	2.1-8.7W	
	200mA	1.2-10.0W	
	250mA	1.5-12.5W	
	275mA	1.7-13.7W	
	325mA	2.0-16.2W	
	350mA	2.1-17.5W	
	400mA	2.4-20.0W	
	425mA	2.6-17.8W	
	475mA	2.9-19.9W	
	500mA	3.0-20.0W	
	550mA	3.3-19.8W	
	575mA	3.5-17.2W	
	625mA	3.8-18.7W	
	650mA	3.9-19.5W	
	700mA	4.2-19.6W	
	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	0.5-3%	
	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 - +85°C	
	Relative humidity	10%-95%	
	Surge transient protection	2kV	L/N
	Environmental rating	Indoor	
	IP rating	IP20	
	Mains switching cycles	> 100,000	
	Expected lifetime	> 50,000 h, t _c 90 °C @ t _a 50 °C > 100,000 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, EN 62493	
Performance:		EN 62384	
EMC standard:		EN 55015, EN 61547, EN 61000-3-2, EN 61000-3-3	
DALI protocol standard:		EN 62386-101, EN 62386-102, EN 62386-207	
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: LBDC20W700CALRP



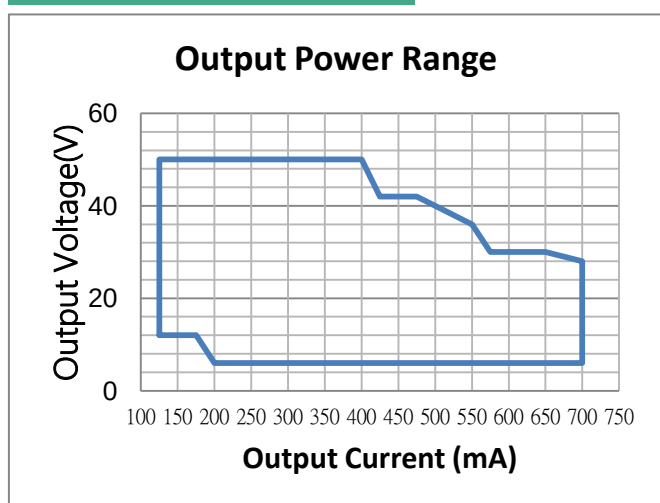
Independent type

Order number: LBDC20W700CALRPZ

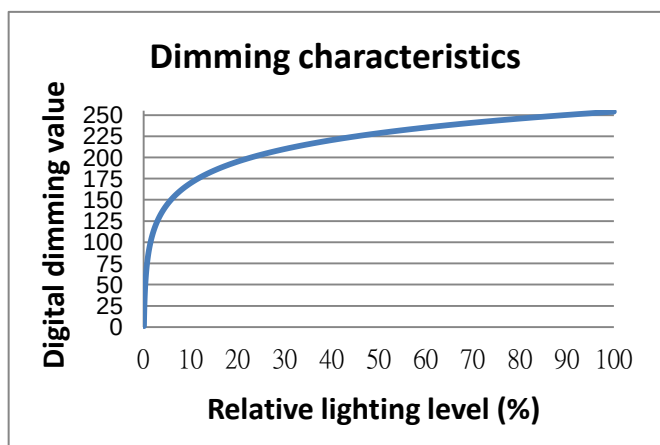
Electrical Values

Output Current (mA)	Output Voltage Range (V)	Output Power Range (W)
700	6-28	4.2 - 19.6
650	6-30	3.9 - 19.5
625	6-30	3.8 - 18.7
575	6-30	3.5 - 17.2
550	6-36	3.3 - 19.8
500	6-40	3.0 - 20.0
475	6-42	2.9 - 19.9
425	6-42	2.6 - 17.8
400	6-50	2.4 - 20.0
350	6-50	2.1 - 17.5
325	6-50	2.0 - 16.2
275	6-50	1.7 - 13.7
250	6-50	1.5 - 12.5
200	6-50	1.2 - 10.0
175	12-50	2.1 - 8.7
125	12-50	1.5 - 6.2

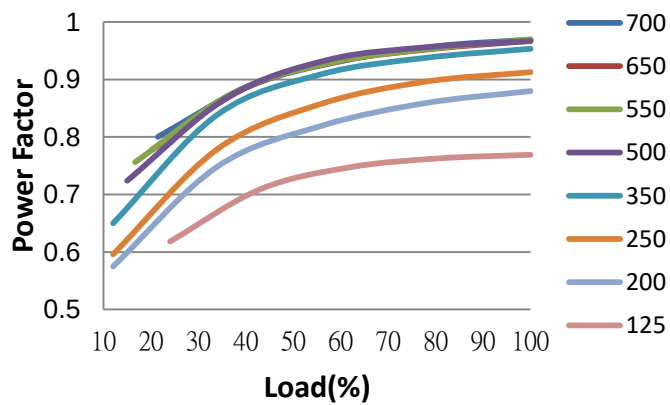
V/I Curve



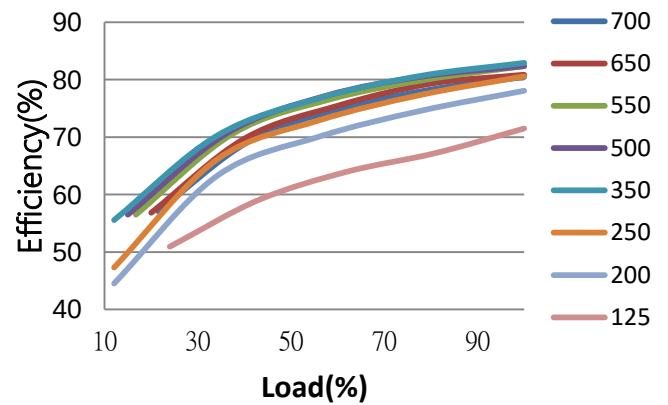
DALI Curve



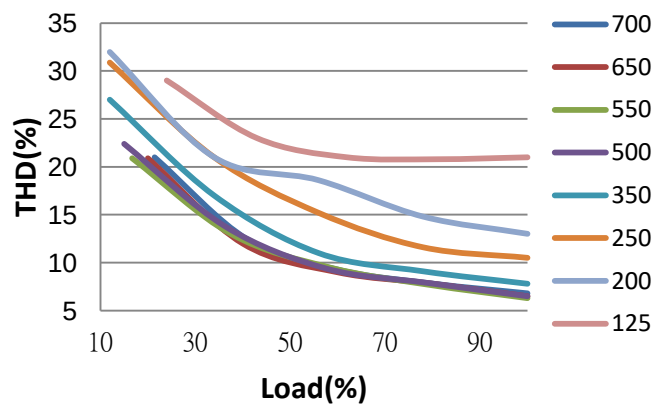
Power Factor vs. Load



Efficiency vs. Load

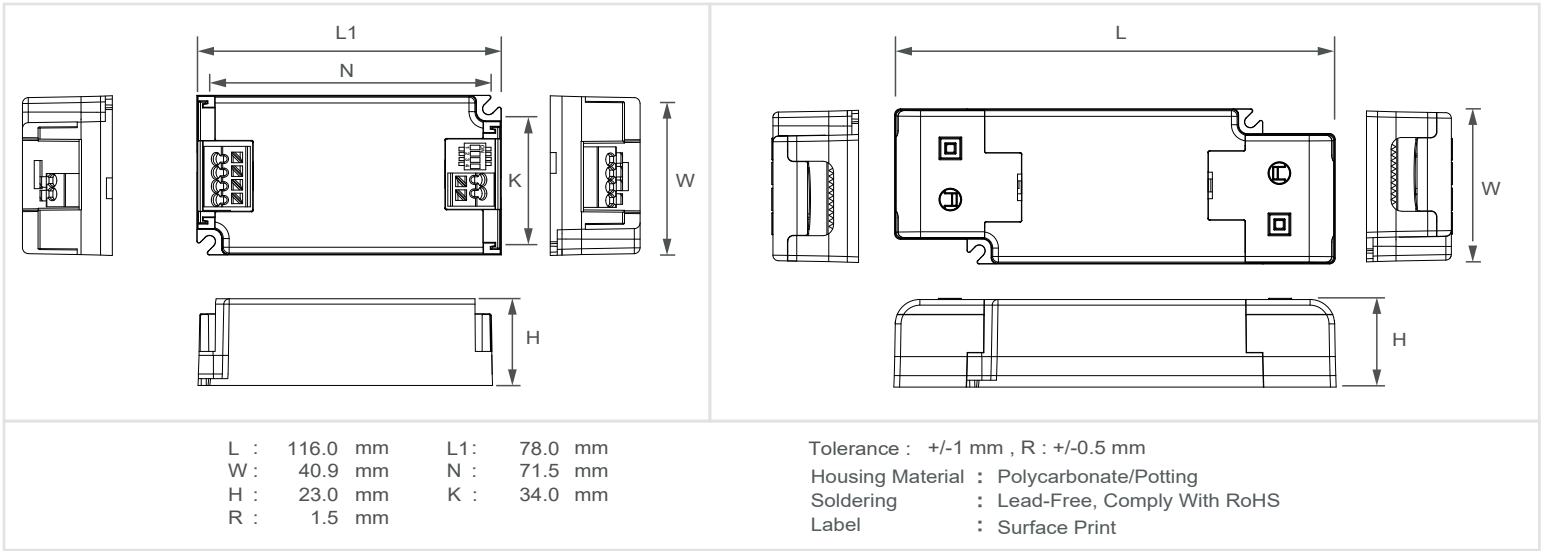
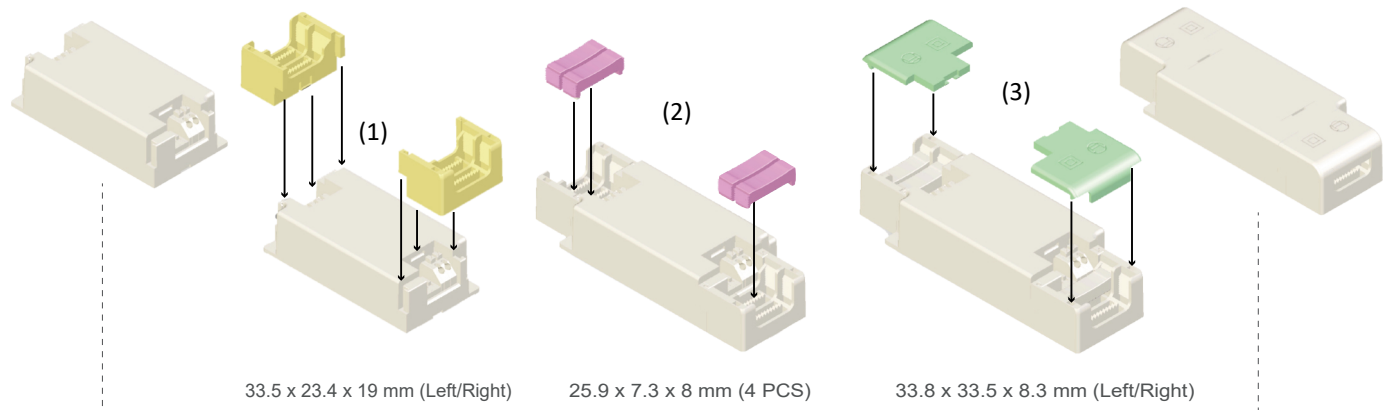


THD vs. Load



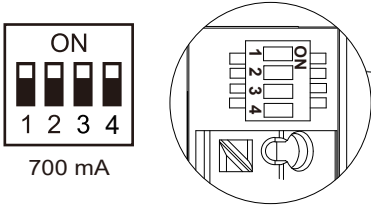
Physical
Parameter

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

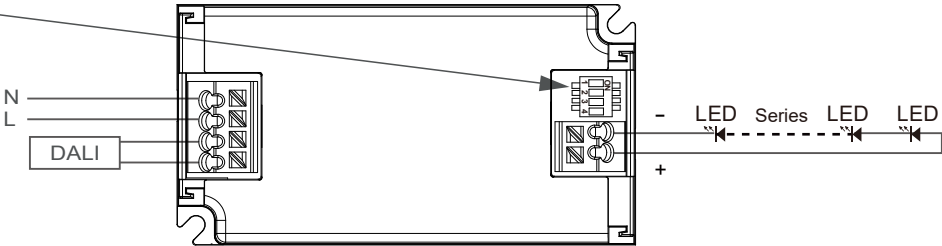


Dip Switch -
One driver offers 16 choosable output current

WiringDiagram
DALI system



Current	Dip-switch setting			
	1	2	3	4
700 mA	ON	ON	ON	ON
650 mA	-	ON	ON	ON
625 mA	ON	-	ON	ON
575 mA	-	-	ON	ON
550 mA	ON	ON	-	ON
500 mA	-	ON	-	ON
475 mA	ON	-	-	ON
425 mA	-	-	-	ON
400 mA	ON	ON	ON	-
350 mA	-	ON	ON	-
325 mA	ON	-	ON	-
275 mA	-	-	ON	-
250 mA	ON	ON	-	-
200 mA	-	ON	-	-
175 mA	ON	-	-	-
125 mA	-	-	-	-



TOUCH DIM

