



Built-in type



Independent type

Approval



Item		Value	Remark	
Input	Nominal voltage	220–240V		
	Nominal frequency	0/50–60Hz		
	AC voltage range	198–264V		
	DC voltage range	180-300Vdc	Fixed output light at 15%	
	Nominal current	85mA	Full load @ 230VAC	
	Total Harmonic Distortion (THD)	< 10%	Full load @ 230VAC	
	Power factor	0.45C-0.93C	Min-load @ 240Vac and Full-load @ 220Vac	
	Displacement factor	0.45C-0.93C	Min-load @ 240Vac and Full-load @ 220Vac	
	Efficiency	79% (Typ.)	Full load 24VDC/500mA @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	8 A / 20 μs	Full load @230VAC	
	Max.units per circuit breaker	Type B , 10A MCB	47	
		Type B , 16A MCB	75	
		Type C , 10A MCB	59	
		Type C , 16A MCB	94	
Touch current	< 0.7mA peak	IEC/EN 61347-1		
Output	Nominal voltage range			
	175/200/225/250mA	6-42Vdc		
	325mA	6-36Vdc		
	350mA	3-34Vdc		
	375mA	3-32Vdc		
	400mA	3-30Vdc		
	475/500mA	3-24Vdc		
	525/550mA	3-22Vdc		
	625/650mA	3-18Vdc		
	675/700mA	3-17Vdc		
	Maximum voltage	50Vdc		

	Item	Value	Remark
Output	Nominal current range	175mA-700mA	Factory default 175mA
	Current accuracy		
	175/200mA	±10%	Full load @ 230Vac
	225/250mA	± 8%	Full load @ 230Vac
	325/350/375/400/475/500mA 525/550/625/650/675/700mA	± 5%	Full load @ 230Vac
	Typical output LF current ripple	± 5%	Low Frequency< 120Hz Full load @ 230VAC
	Starting time	< 1S	Full load @ 230VAC for AC power ON
		< 0.5S	Full load @ 230VAC for DALI control
	SVM	≤0.4	Full load @ 230VAC
	PstLM	≤1	Full load @ 230VAC
	Nominal power range		
	175mA	1.1-7.3W	
	200mA	1.2-8.4W	
	225mA	1.4-9.4W	
	250mA	1.5-10.5W	
	325mA	2.0-11.7W	
	350mA	1.1-11.9W	
	375mA	1.2-12.0W	
	400mA	1.2-12.0W	
	475mA	1.5-11.4W	
	500mA	1.5-12.0W	
	525mA	1.6-11.5W	
	550mA	1.7-12.1W	
	625mA	1.9-11.2W	
	650mA	2.0-11.7W	
	675mA	2.1-11.4W	
	700mA	2.1-11.9W	
	Maximum power	12.1W	
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	O/P current < 35% operated @ PWM mode
	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 - +85°C	
	Relative humidity	10%-95%	
	Surge transient protection	1kV	L/N
	Environmental rating	Indoor	
	IP rating	IP20	
	Mains switching cycles	> 100,000	
	Expected lifetime	> 40,000 h, t_c 90 °C @ t_a 50 °C > 80,000 h, t_c 80 °C @ t_a 40 °C	0.25 % / 1,000 h failure rate 0.13 % / 1,000 h failure rate
Packing	Gross weight/box	16.2 / 8.6 kg	Built-in / Independent
	Net weight/box	14.9 / 6.5 kg	Built-in / Independent
	Pcs/box	220 / 96 PCS	Built-in / Independent
	Dimension/box	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
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	0.2-1.5□/AWG 24-16
Stripping	9mm

Sec Connection

Cable cross-section	0.2-1.5□/AWG 24-16
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: LLDC12W700CALRP-S



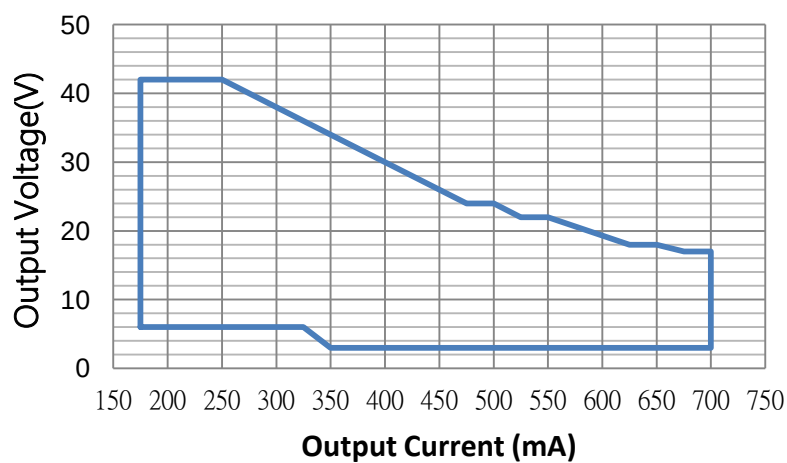
Independent type
Order number: LLDC12W700CALRPZ-S

Electrical Values

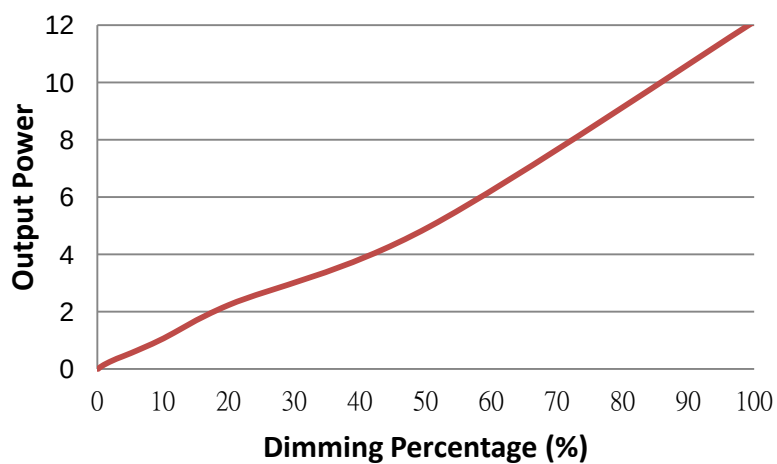
Output Current (mA)	Output Voltage Range (V)	Output Power Range (W)
175	6-42	1.1-7.3
200	6-42	1.2-8.4
225	6-42	1.4-9.4
250	6-42	1.5-10.5
325	6-36	2.0-11.7
350	3-34	1.1-11.9
375	3-32	1.2-12.0
400	3-30	1.2-12.0
475	3-24	1.5-11.4
500	3-24	1.5-12.0
525	3-22	1.6-11.5
550	3-22	1.7-12.1
625	3-18	1.9-11.2
650	3-18	2.0-11.7
675	3-17	2.1-11.4
700	3-17	2.1-11.9

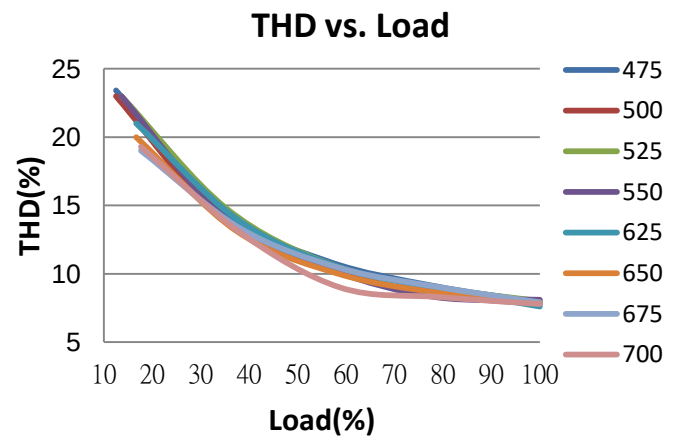
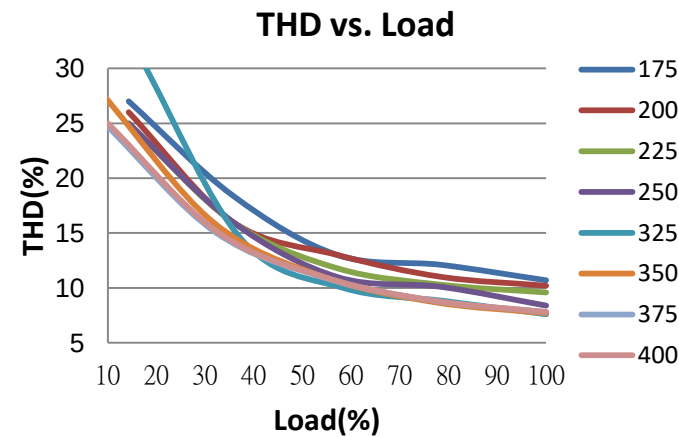
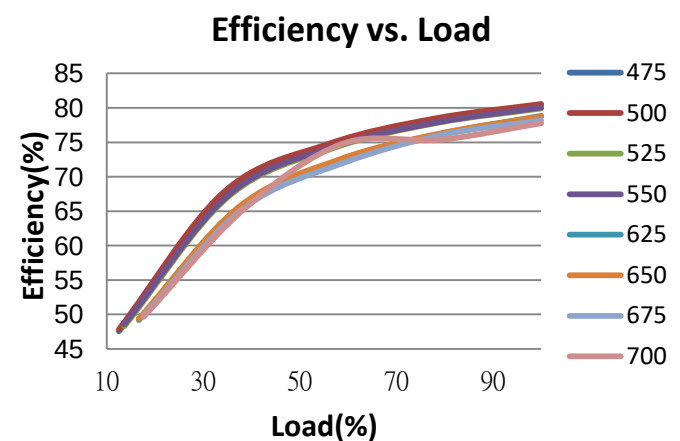
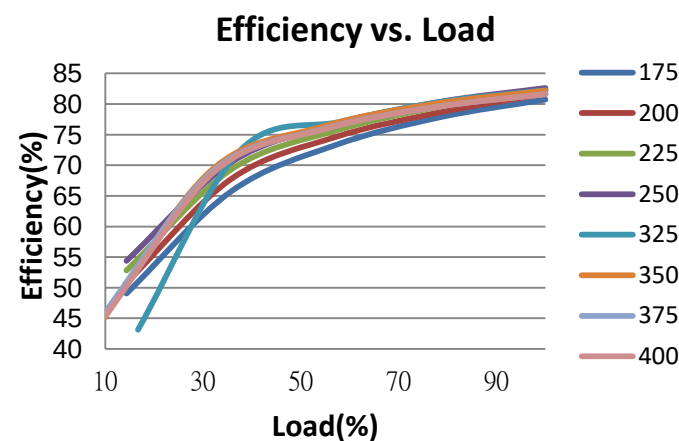
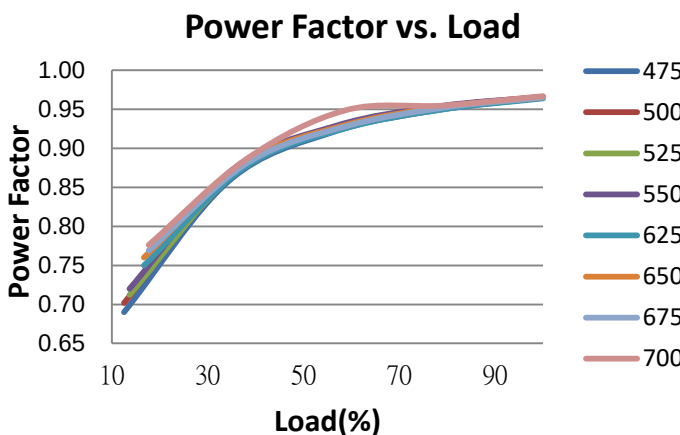
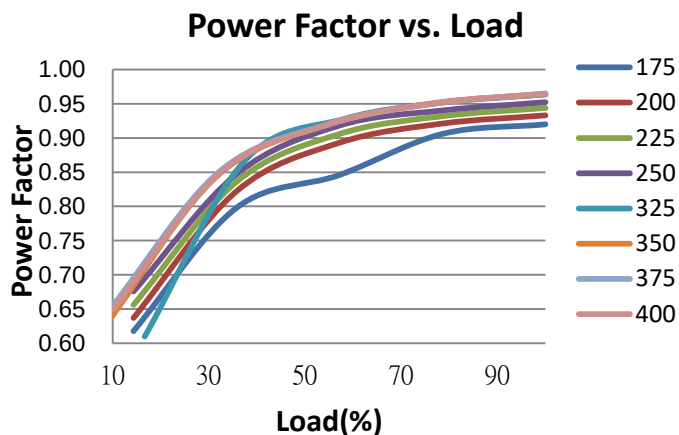
V/I Curve

Output Power Range



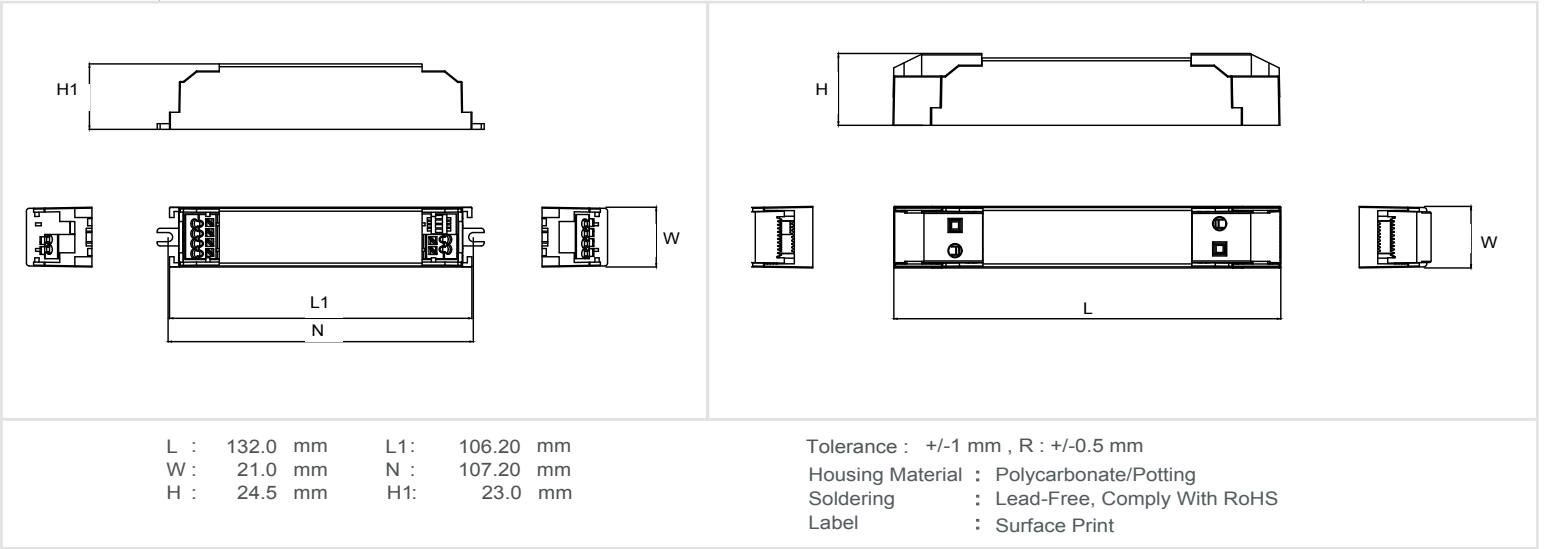
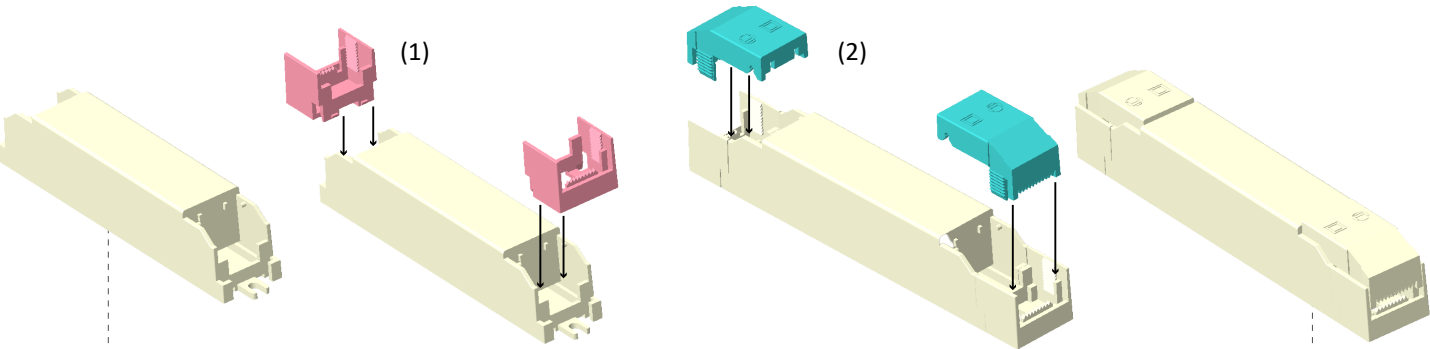
Dimming characteristics





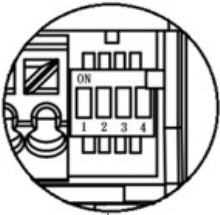
Physical
Parameter

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



Dip Switch -
One driver offers 8 choosable output current

WiringDiagram
DALI system



Current	Dip-switch setting			
	1	2	3	4
175 mA	-	-	-	-
200 mA	-	-	-	ON
225 mA	-	-	ON	-
250 mA	-	-	ON	ON
325 mA	-	ON	-	-
350 mA	-	ON	-	ON
375 mA	-	ON	ON	-
400 mA	-	ON	ON	ON
475 mA	ON	-	-	-
500 mA	ON	-	-	ON
525 mA	ON	-	ON	-
550 mA	ON	-	ON	ON
625 mA	ON	ON	-	-
650 mA	ON	ON	-	ON
675 mA	ON	ON	ON	-
700 mA	ON	ON	ON	ON

