



Approval Marks



- ☐ LWTC20W500CALR-W
- ☐ LWTC20W500CALR-B
- ☐ LWTC20W500CALR-G

Item		Value	Remark
Input	Nominal voltage	220–240Vac	
	Nominal frequency	50–60Hz	
	AC voltage range	198–264V	
	DC voltage range (start)	NA	
	DC voltage range (operation)	NA	
	Nominal current	140mA	
	Total Harmonic Distortion (THD)	< 25%	Full load @230VAC
	Power factor	0.7C-0.95	Full load @230VAC
	Displacement factor	0.7C-0.95	Full load @230VAC
	Efficiency	83%(Typ.)	Full load @230VAC
	No-load power	NA	
	Stand-by power	NA	
	Protection class	II	
	Inrush current	15A / 40us	
Output	Max.units per circuit breaker	Type B , 10A MCB	29
		Type B , 16A MCB	46
		Type C , 10A MCB	36
		Type C , 16A MCB	57
	Touch current	< 0.7mA peak	IEC/EN 61347-1
	Nominal voltage range	25-40Vdc	
	Maximum voltage	55Vdc	
	Nominal current range		Full load @230VAC
	500mA	500mA	
	350mA	350mA	
	250mA	250mA	
	Current accuracy	± 5%	Full load @230VAC
	Typical output LF current ripple	± 5%	Low Frequency< 120Hz Full load @230VAC
	SVM	≤ 0.4	Full load @230VAC
	P _{stLM}	≤ 1	Full load @230VAC
	Starting time	< 0.5 S	Full load @230VAC

	Item	Value	Remark
Output	Nominal power range		
	500mA	12.5-20W	
	350mA	8.8-14W	
	250mA	6.3-10W	
	Maximum power	20W	
Dimming	Dimming control	Trailing edge	
	Dimming technique	Amplitude	
	PWM frequency	NA	
	Dimming range	10-100%	
	Lowest dimming current	1-6%	Full load @230VAC
	Galvanic isolation	NA	
Environment	Ambient temperature range t _a	-20°C - +35°C	
	Maximum case temperature t _c	60°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% - 90%	
	Surge transient protection	1 kV	L/N
	Environmental rating	Indoor	
	IP rating	IP20	
	Mains switching cycles	> 100,000	
	Expected lifetime	> 50,000 h, t _c 60 °C @ t _a 35 °C > 100,000 h, t _c 50 °C @ t _a 25 °C	0.2 % / 1,000 h failure rate 0.1 % / 1,000 h failure rate
	Packing	Gross weight/Carton	5.8 kg
Net weight/Carton		4.9 kg	
Pcs/Carton		35 PCS	
Dimension/Carton		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 61000-3-2, EN 61000-3-3, EN 61547	
Cable information			
Sec	Connection	+	-
Cable cross-section		0.34-0.5□/AWG 22-20	0.34-0.5□/AWG 22-20
Stripping		9mm	9mm
Terminal information			
PRI-Contact metal			
SEC-Push button/Angled Entry			

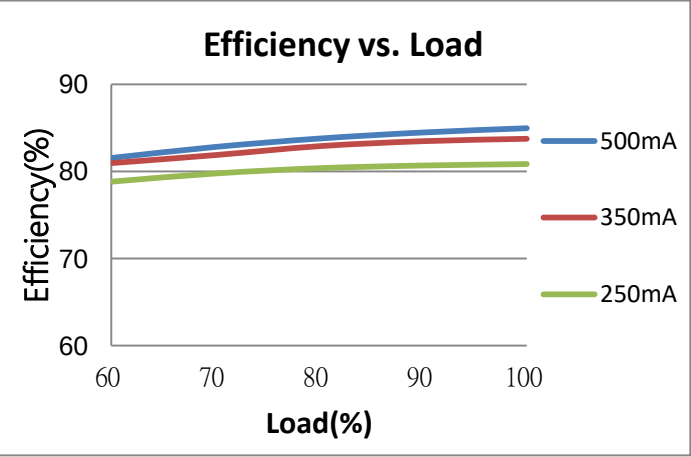
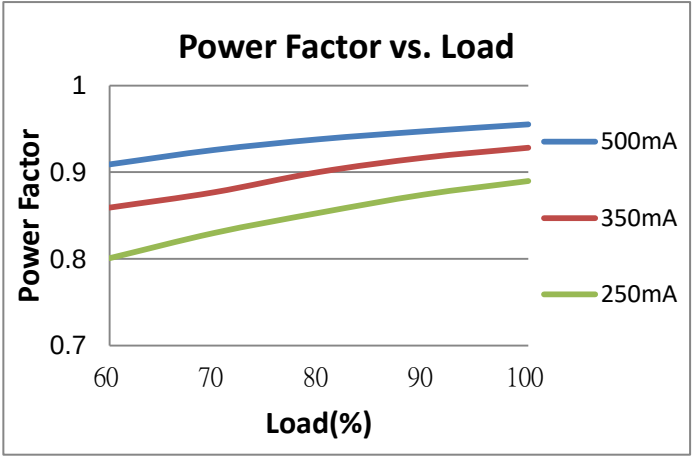
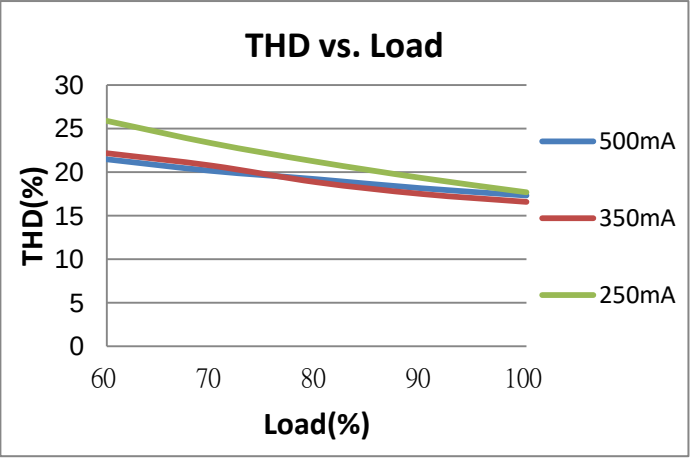
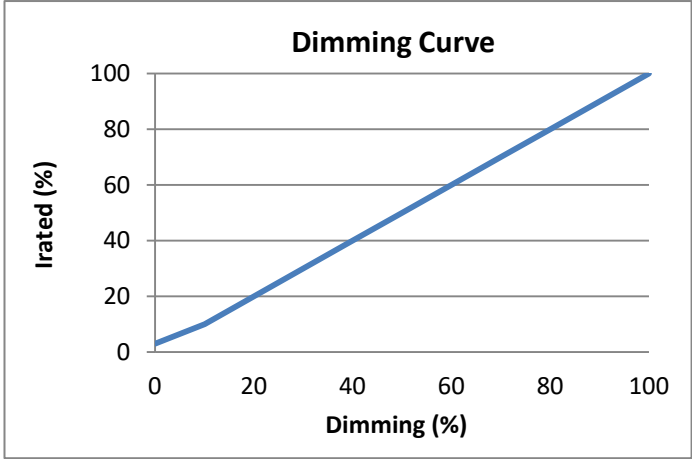
* If not mentioned, all the test conditions are based on full load at 230VAC input (for 220-240 VAC input).

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

Trailing Edge Dimmer list approved by HEP

Manufacturer	Model	Q'ty of parallelconnection
Philips	SED-200A	6
Merten/Schneider	SBD315RC	8
Etman	ETM327	8
Etman	ETM329	8

Electrical Values



Label

HEP^{GROUP}
HEP GmbH - Ramsloh 10
58579 Schalksmühle - Germany
UN= 220-240Vac
IN= 140mA max.
λ= 0.9C f_N= 50-60Hz
ta= -20°C - +35°C

Phase Dimmable LED Driver
LWTC20W500CALR
Trailing Edge Dim
Urang= 25-40 Vdc
Irated= 250/350/500mA const.
Prated= 6.3-20W max. ratings
Uout= 53V max. for output details see datasheet

DIP	Irated[mA]	DIP1	DIP2
ON	250	OFF	OFF
1	350	ON	OFF
2	500	ON	ON

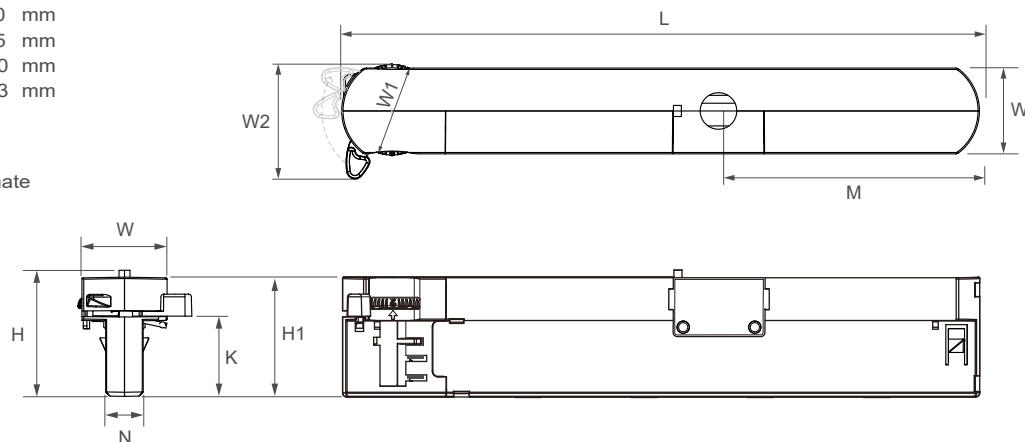
GMA-520393-EA • tc= 60°C

SEC SELV
05
UK CA
9mm wire preparation
0.34-0.5mm²/AWG 22-20
110

Physical Parameter

L : 230.5 mm W1 : 33.0 mm
W : 31.0 mm W2 : 41.5 mm
H : 45.9 mm H1 : 43.0 mm
N : 13.7 mm M : 94.3 mm
K : 27.5 mm

Tolerance : $\geq \pm 1$ mm
Housing Material : Polycarbonate

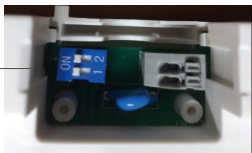


Dip Switch - One driver offers 3 choosable output current

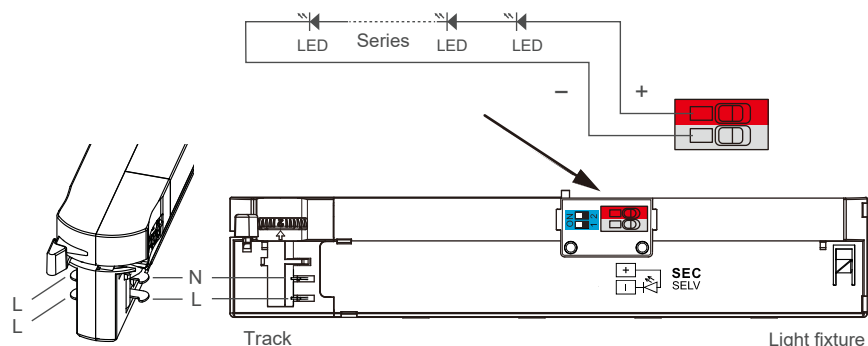
ON
1 2

500mA

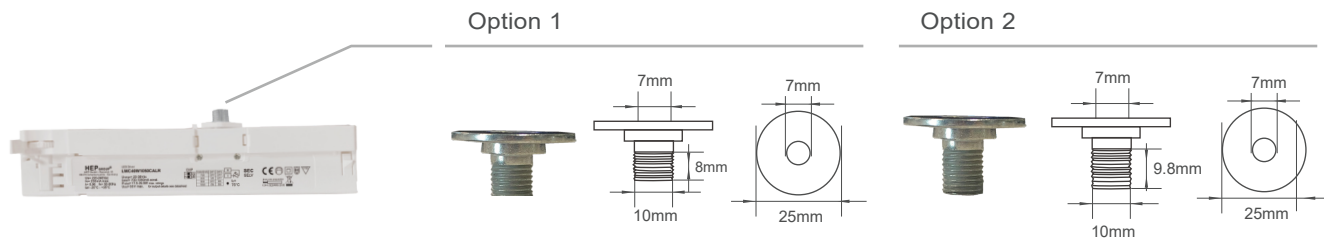
Current	Dip-switch setting	
	1	2
500mA	ON	ON
350mA	ON	-
250mA	-	-



Wiring Diagram



Lamp screw type



The driver could be compatible with Global, Powergear, STUCCHI on 3-phase-circuit track system.

Manufacturer	Type	Model	System
NORDIC ALUMINIUM	Global Track Pro	XTS 4x00	x=1,2,3,4 3-phase
EUTRAC	Surface Track	25-x0	x=1,2,3,4 3-phase
ZUMTOBEL	3 Circuits DALI Track System	S2 801 S2 803	3-phase
IVELA	3-phase LKM	7501-x0	x=1,2,3,4 3-phase
POWERGEAR	3 Circuits Track System	PRO-04x0	x=1,2,3 3-phase