



LED Electrical Specification for **G6RT7WxxxLRP**

Phase Dimmable LED Driver



Item		Value	Remark
Nominal voltage		220–240V	
Nominal frequency		50–60Hz	
AC voltage range		198–264V	
DC voltage range (start)		NA	
DC voltage range (operation)		NA	
Nominal current		50mA	Full load @230VAC
Total Harmonic Distortion (THD)		< 20%	Full load @230VAC
Power factor		0.9C-0.95	Min-load @ 240Vac and Full-load @ 220 Vac
Displacement factor		0.9C-0.95	Min-load @ 240Vac and Full-load @ 220 Vac
Efficiency			Full load @230VAC
Input	G6RT7W150LRP	80%(Typ.)	
	G6RT7W350LRP	77%(Typ.)	
	G6RT7W500LRP	74%(Typ.)	
	G6RT7W700LRP	70%(Typ.)	
	No-load power	NA	
Stand-by power		NA	
Protection class		NA	Suitable for class II luminaires
Inrush current		3.5A / 120us	
Max.units per circuit breaker		Type B , 10A MCB	80
		Type B , 16A MCB	128
		Type C , 10A MCB	100
		Type C , 16A MCB	160
Touch current		< 0.7mA peak	IEC/EN 61347-1
Nominal voltage range			
Output	G6RT7W150LRP	30-42Vdc	
	G6RT7W350LRP	12-22Vdc	
	G6RT7W500LRP	9-13Vdc	
	G6RT7W700LRP	6-9Vdc	
	Maximum voltage		
	G6RT7W150LRP	50Vdc	
	G6RT7W350LRP	35Vdc	
	G6RT7W500LRP	25Vdc	
	G6RT7W700LRP	20Vdc	

		Item	Value	Remark
Output		Nominal current range		Full load @230VAC
		G6RT7W150LRP	150mA	
		G6RT7W350LRP	350mA	
		G6RT7W500LRP	500mA	
		G6RT7W700LRP	700mA	
		Current accuracy		Full load @230VAC
		G6RT7W350/500/700LRP	± 5%	
		G6RT7W150LRP	± 7%	
		Typical output LF current ripple	± 5%	Low Frequency< 120Hz Full load @230VAC
		Starting time	< 0.5 S	Full load @230VAC
		SVM	≤0.4	Full load @230VAC
		PstLM	≤1	Full load @230VAC
		Nominal power range		
		G6RT7W150LRP	4.5-6.3W	
		G6RT7W350LRP	4.2-7.7W	
Dimming		G6RT7W500LRP	4.5-6.5W	
		G6RT7W700LRP	4.2-6.3W	
		Maximum power	7.7W	
		Dimming control	Trailing edge	
		Dimming range	10-100%	
		Lowest dimming current	2-6%	
Environment		Dimming technique	Amplitude	
		PWM frequency	NA	
		Galvanic isolation	NA	
		Ambient temperature range t _a	-20°C - +50°C	
		Maximum case temperature t _c		
		G6RT7W150LRP	70°C	
		G6RT7W350LRP	75°C	
		G6RT7W500LRP	75°C	
		G6RT7W700LRP	85°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		
		G6RT7W150LRP	Full load	> 50,000 h, tc 70 °C @ ta 50 °C 0.2 % / 1,000 h failure rate
			Output load ≤ 4.9W	> 48,000 h, tc 70 °C @ ta 60 °C 0.21 % / 1,000 h failure rate
		G6RT7W350LRP	Full load	> 50,000 h, tc 75 °C @ ta 50 °C 0.2 % / 1,000 h failure rate
			Output load ≤ 4.9W	> 48,000 h, tc 75 °C @ ta 60 °C 0.21 % / 1,000 h failure rate
		G6RT7W500LRP	Full load	> 50,000 h, tc 75 °C @ ta 50 °C 0.2 % / 1,000 h failure rate
			Output load ≤ 4.9W	> 48,000 h, tc 75 °C @ ta 60 °C 0.21 % / 1,000 h failure rate
		G6RT7W700LRP	Full load	> 50,000 h, tc 85 °C @ ta 50 °C 0.2 % / 1,000 h failure rate
			Output load ≤ 4.9W	> 48,000 h, tc 85 °C @ ta 60 °C 0.21 % / 1,000 h failure rate

Packing	Gross weight/Carton	3.8 kg
	Net weight/Carton	3.4 kg
	Pcs/Carton	90 PCS
	Dimension/Carton	240(L)*190(W)*185(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

PRI	Connection	L	N
	Color	Brown	Blue
	Wire type	7022	7022
	Wire diameter	AWG20	AWG20
	Wire length	140mm	140mm
	Stripping	6mm	6mm
	Tolerance	±5mm	±5mm

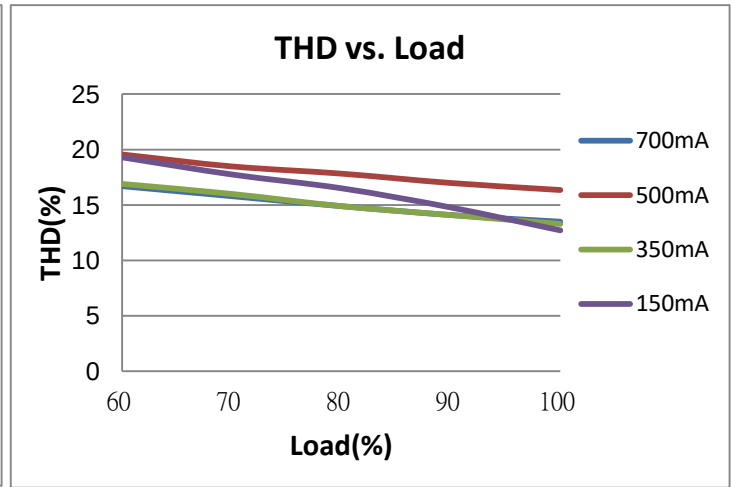
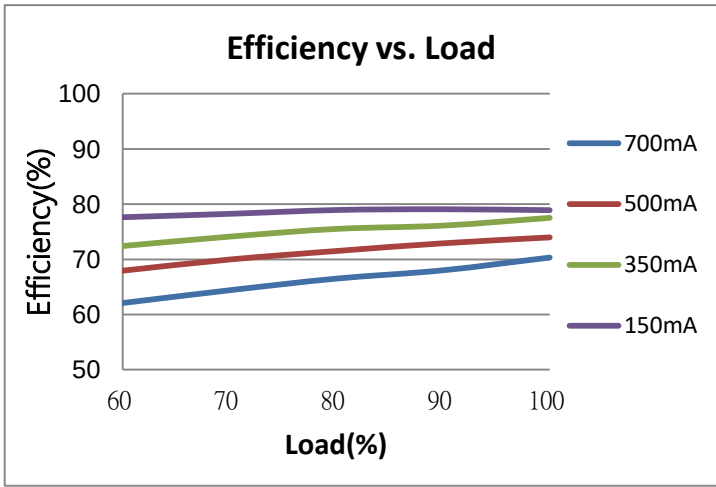
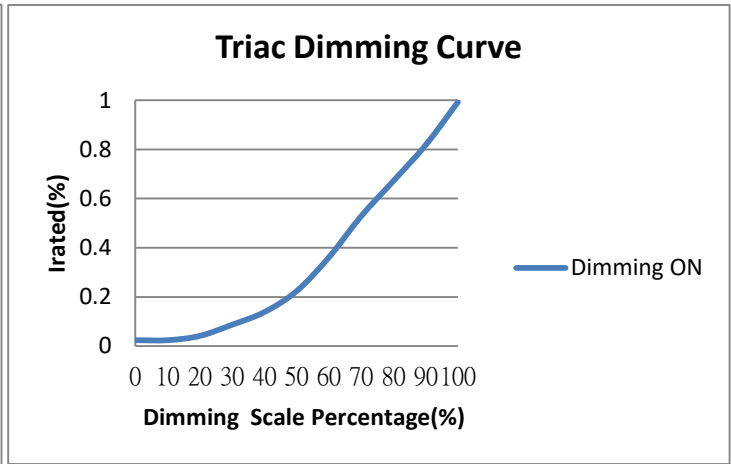
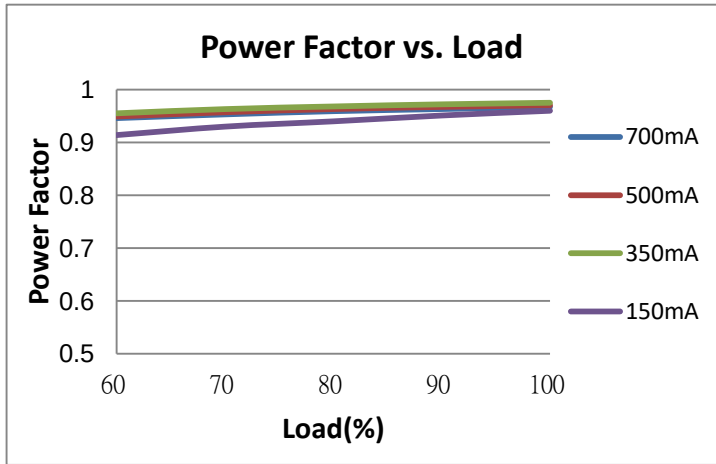
SEC	Connection	+	-
	Color	Red	Black
	Wire type	1332	1332
	Wire diameter	AWG22	AWG22
	Wire length	139mm	139mm
	Stripping	6mm	6mm
	Tolerance	±5mm	±5mm

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

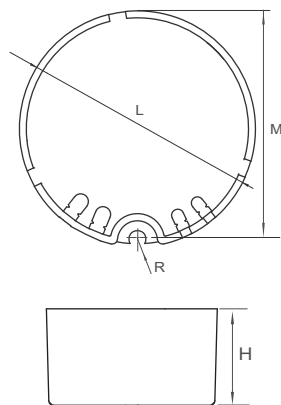
*If not mentioned, all the test conditions are based on full load at 230VAC input (for 220-240 VAC input).

Trailing Edge Dimmer list approved by HEP

Manufacturer	Model	Q'ty of parallelconnection
Philips	SED-200A	20
Schneider	SBD315RC	30
Etman	ETM327	40
Etman	ETM329	40
Merten	SBD200LED	40
Busch	6513 U-102	40
Busch	6523 UR-103	40
Busch	6523 U-102	25
Niko	310-0190X	32
JUNG	LB-Management	40
CASAMBI	CBU-TED	15



Physical
Parameter



L : 44.3 mm M: 42.8 mm
H : 25 mm R : 1.6 mm
Tolerance : +/-1 mm , R : +/-0.5 mm
Housing Material : Polycarbonate / Potting
Soldering : Lead-Free, Comply With RoHS
Label : Surface Print

Wiring Diagram

