



LED Electrical Specification for **G6RT15WxxxLRP**

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		90mA	Full load @230VAC
Total Harmonic Distortion (THD)		< 23%	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	G6RT15W300LRP	84%(Typ.)	
	G6RT15W350LRP	84%(Typ.)	
	G6RT15W500LRP	83%(Typ.)	
	G6RT15W700LRP	82%(Typ.)	
	No-load power	NA	
Stand-by power		NA	
Protection class		NA	Suitable for class II luminaires
Inrush current		4A /35us	
Max.units per circuit breaker		Type B , 10A MCB	44
		Type B , 16A MCB	71
		Type C , 10A MCB	56
		Type C , 16A MCB	89
Touch current		< 0.7mA peak	IEC/EN 61347-1
Nominal voltage range			
Output	G6RT15W300LRP	26-43Vdc	
	G6RT15W350LRP	26-43Vdc	
	G6RT15W500LRP	18-30Vdc	
	G6RT15W700LRP	13-21Vdc	
	Maximum voltage		
Output	G6RT15W300LRP	55Vdc	
	G6RT15W350LRP	55Vdc	
	G6RT15W500LRP	38Vdc	
	G6RT15W700LRP	33Vdc	
Nominal current range			Full load @230VAC
G6RT15W300LRP		300mA	

Item		Value	Remark	
Output	G6RT15W350LRP	350mA		
	G6RT15W500LRP	500mA		
	G6RT15W700LRP	700mA		
	Current accuracy	± 5%	Full load @230VAC	
	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			
	G6RT15W300LRP	7.8-12.9W		
G6RT15W350LRP	9.1-15W			
G6RT15W500LRP	9-15W			
G6RT15W700LRP	9.1-14.7W			
Maximum power	15W			
Dimming	Dimming control	Trailing edge		
	Dimming range	10-100%		
	Lowest dimming current	2-6%		
	Dimming technique	Amplitude		
	PWM frequency	NA		
	Galvanic isolation	NA		
Environment	Ambient temperature range t _a	-20°C - +50°C		
	Maximum case temperature t _c			
	G6RT15W300/350/500LRP	75°C		
	G6RT15W700LRP	80°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			
	G6RT15W300/350/500LRP	Full load	> 50,000 h, tc 75 °C @ ta50 °C	0.2 % / 1,000 h failure rate
		Output load ≤ 10.5W	> 48,000 h, tc 75 °C @ ta60 °C	0.21 % / 1,000 h failure rate
		Full load	> 50,000 h, tc 80 °C @ ta50 °C	0.2 % / 1,000 h failure rate
Output load ≤ 10.5W		> 48,000 h, tc 80 °C @ ta60 °C	0.21 % / 1,000 h failure rate	
G6RT15W700LRP				
Packing	Gross weight/Carton	14.2 kg		
	Net weight/Carton	13.2 kg		
	Pcs/Carton	180 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

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

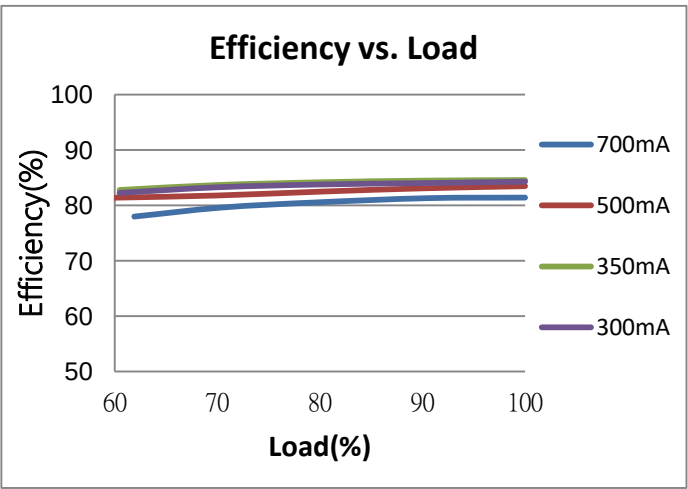
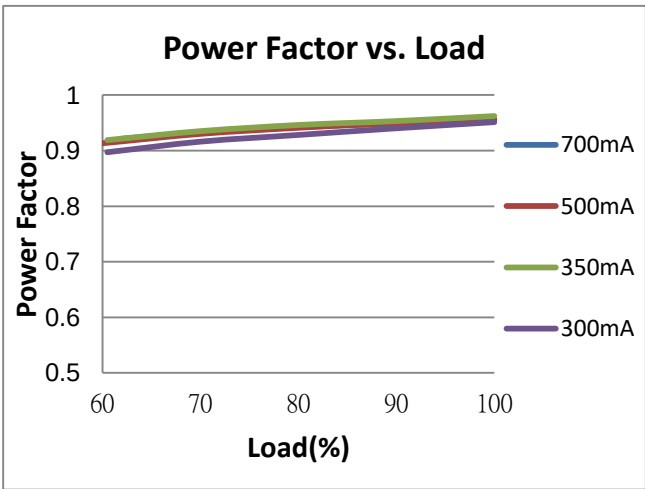
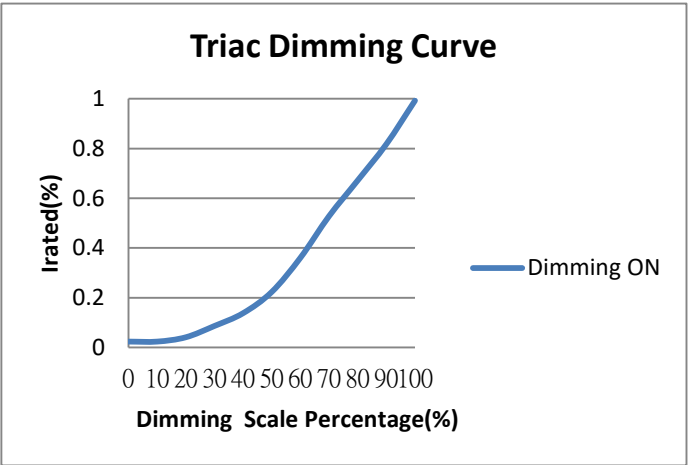
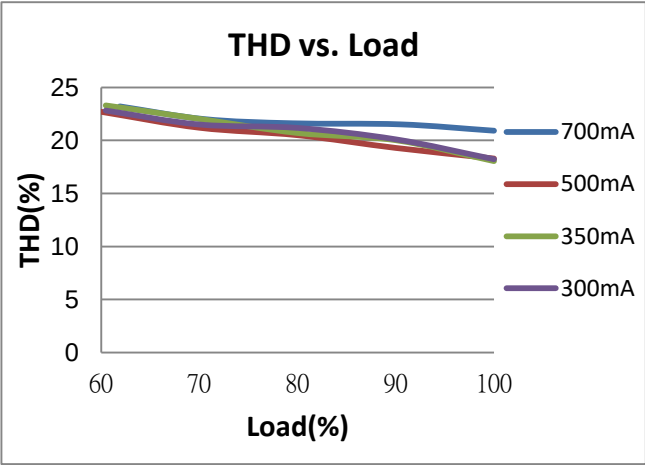
SEC Connection	+	-
Color	Red	Black
Wire type	1332	1332
Wire diameter	AWG22	AWG22
Wire length	139mm	139mm
Stripping	6mm	6mm
Tolerance	±5mm	±5mm

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

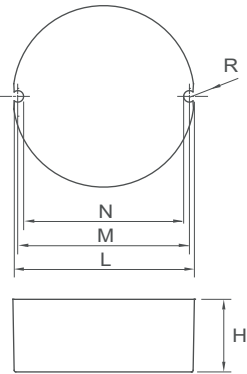
*If not mentioned, all the test conditions are based on full load at 230VAC input (for 220-240 VAC input).

Trailing Edge Dimmer list approved by HEP

Manufacturer	Model	Q'ty of parallelconnection
Philips	SED-200A	10
Schneider	SBD315RC	15
Etman	ETM327	18
Etman	ETM329	18
Merten	SBD200LED	18
Busch	6513 U-102	19
Busch	6523 UR-103	18
Busch	6523 U-102	12
Niko	310-0190X	15
JUNG	LB-Management	18
CASAMBI	CBU-TED	7



Physical
Parameter



L : 48 mm M : 46.7 mm N : 43.5 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

