Halogen lamps

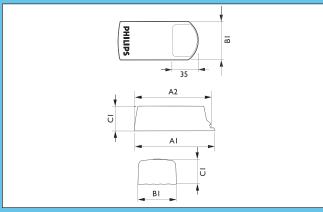
Electronic

ET-Standard Transformer



ET-STANDARD

Dimensions in mm



Definition

A high frequency electronic transformer for operation with 12V halogenl lamps. The ET-Standard range comes in 60W versions. It is fully IEC compliant and uniquely compact and lightweight. It is also dimmable with Philips approved Leading and Trailing Edge dimmers.

Descriptions

The ET-Standard range has the following advantages over conventional gear.

Safe Operation

Short circuit-In the case of a short circuit in the lamp. The ET-Standard has built in self-resetting shor t-circuit protection. Thermal switch-The thermal switch interrupts overloads and will switch the transformer off if there is excess current. Temperature protection-If the housing or ambient temperature becomes high the protection circuit will reduce the output voltage.

- Constant output voltage-In the event of lamp wattage variations the ET-Standard guarantees a continual secondary voltage of 12V, ensuring long lamp life and constant light level.
- · Compact and lightweight
- Long lamp life
- Inaudible during operation

Application

ET-Standard transformers are designed for areas such as:

- Indoor residential; living rooms, decorative and accent lighting
- In professional areas; reception areas, retail areas, conference rooms and offices
- In retail areas and exhibitions rooms

Philips Quality

This represents optimum quality with regards to:

• System supplier:

As a manufacturer of lamps and electronic control gear; Philips ensures that, from the earliest development stage,maximum lamp life performance is maintained

 International standards; The ET-Standard complies with the relevant international rules and regulations.

Compliances and approvals

• RFI < 30 MHz	EN 55015
• Harmonics	EN 61000-3-2
Immunity	EN 61547
• Safety	EN 61046, IEC 61347-2-2*
Performance	EN 61047
Environmental standard	ISO 14001
 Marking 	CE, SELV

	Overall length				
	A1	A2	B1	C1	
Product ID	max.	max.	max.	max.	
ET-S 60VV	98	88	46	31	
ET-S 105W	110	-	52	33.5	
ET-S 150VV	140	-	52	36	

* for ET-S 105, ET-S 150

ET-Standard Transformer

Electronic

Technical data

Technical data							
Transformer	Voltage (Volt)	Power ran (Wa		Frequency (Hz)	Power loss (Watt)	Dimming from (Watt)	Output (Volt) [(Watt)]
ET-S 60 220-240	220-240	20-6	60	50/60	4	20	11.3 (60)
ET-S 105 220-240	220-240	35-1		50/60	6	20	11.5 (105)
ET-S 150 220-240	220-240	50-1	150	50/60	10	20	11.5 (150)
Technical data for installation Mains operation Rated voltage with tolerances for safety Tolerances for performance +6% -8% Operating frequency		220 - 240 V 170 - 264 V 212 - 254 V > 25 kHz	V V S T	Installation recommendation: Wire cross-section on mains side Wire cross-section on lamp side Strip Length The minimum distance between transformer and the lamp is The maximum distance between		0.5 - 25mm ² 0.5 - 25mm ² 6-8mm 20cm	
DC voltage operation during emergency back-up* Required battery voltage guaranteed ignition 170 - 254		170 - 254 V 160 - 254 V	Т	transformer and the lam he distance between trans must be more than		2M 25cm	
Lifetime ET-s 60 ET-s 105, 150			20,000 hrs 40,000 hrs				Leading& rading edge
Over voltage prot Tamb ET-s 60	tection		Up to 350V -20°C - +50°C		Electric Transforme		limmer
ET-s 105, 150			-20°C - +30°C -20°C - +45°C 85°C			Max.2m	
MAX t _{case} Lamp end of life o	detection/shut		Yes	И	/iring diagrams		
Cable capacity			120pf				

Dimming

Hum and noise level

Dimming is possible with approved leading and trailing edge dimmers.

inaudible

* When working on DC all the protection circuits and dimming will not function

Lamp combination

ET-s 60					
Lamp qty Lamp watt	Min	Max			
5₩	4	12			
10\VV	2	6			
20W	1	3			
35₩	1	1			
50W	1	1			

Ordering and packing data

Transformer	Single unit	Carton packing		
	Weight	Qty. Dimensions		Weight
	net		l x w x h	gross
	kg	pcs	cm	kg
ET-S 60 220-240	0.09	50	25.5 × 21.5 × 18.5	5.4
ET-S 105 220-240	0.12	50	28.5 × 23.5 × 18	7.4
ET-S 150 220-240	0.18	50	30 × 29.5 × 20	10