



Single phase safety and isolating transformer with galvanic isolation between primary and secondary for swimming pool, garden spotlights, saunas and illuminated fountains.

Wounds totally protected against mechanical chocks and adverse environments. Internally encapsulated by resin.

Automatic protection against overloads and overheat by a built-in self-resetting system that prevents the transformer to reach dangerous temperatures for its normal operation.

Short-circuit protection by an internal fuse.

It has several taps in the primary winding in order to compensate for the voltage drop in the transformer-spotlight line according to distance.

Ground terminal provided. Primary and secondary tap compartments separated and fully enclosed.

Internal terminal block with cable gland included.

Enclosure protection by a polycarbonate box IP-65.

Technical characteristics

Power rating 100, 300 and 600 VA

Input voltage 230 V

Output voltage 12 – 17 V

Frequency 50/60 Hz

Ambient temperature 40 °C

Insulation class F (155 °C)

Protection degree IP-65

Safety class

Class II



Test voltage 4 kV

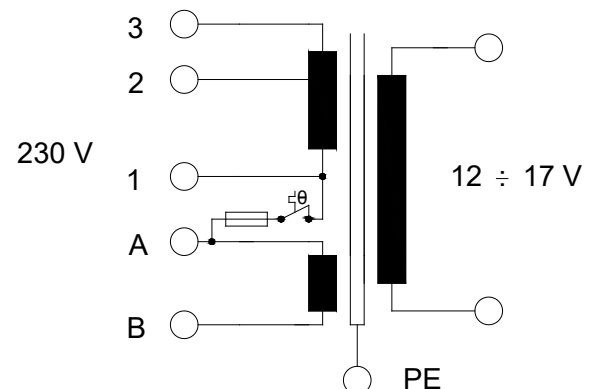
Standard

IEC /UNE-EN 61558-1



IEC /UNE-EN 61558-2-6

Electrical diagram



Selection table

Cable section	Rated spotlight	Transformer EPC100					
		Distance between spotlight and transformer					
2,5 mm ²	100 W	1 to 10 m.	10 to 15 m.	15 to 20 m.	20 to 30 m.	30 to 40 m.	40 to 50 m.
4 mm ²	100 W	1 to 16 m.	16 to 25 m.	25 to 35 m.	35 to 45 m.	45 to 60 m.	60 to 75 m.

Input voltage 230 V	B - 3	B - 2	B - 1	A - 3	A - 2	A - 1
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Cable section	Rated spotlight	Transformer EPC300					
		Distance between spotlight and transformer					
6 mm ²	300 W	1 to 10 m.	10 to 15 m.	15 to 20 m.	20 to 25 m.	25 to 35 m.	35 to 40 m.
10 mm ²	300 W	1 to 16 m.	16 to 25 m.	25 to 35 m.	35 to 45 m.	45 to 55 m.	55 to 65 m.

Input voltage 230 V	B - 3	B - 2	B - 1	A - 3	A - 2	A - 1
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Cable section	Rated spotlight	Transformer EPC600					
		Distance between spotlight and transformer					
6 mm ²	2x300 W	1 to 10 m.	10 to 15 m.	15 to 20 m.	20 to 25 m.	25 to 30 m.	30 to 35 m.
10 mm ²	2x300 W	1 to 16 m.	16 to 25 m.	25 to 30 m.	30 to 35 m.	35 to 40 m.	40 to 45 m.



Input voltage 230 V	B - 3	B - 2	B - 1	A - 3	A - 2	A - 1
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NOTE: for these figures, EPC600 reference to be connected 2 lines and 1 spotlight of 300W each one.

Following we indicate the recommended fuses to put at the primary side of the transformer according to the rating.

Power Rating	Fuse 230 V
100 VA	T 0,63A
300 VA	T 1,6A
600 VA	T 4A

Degree of protection against external objects or water is indicated by an 'IP' degree number. A higher number means more protection.

IP-6_	IP-_5
	
Completely closed enclosure	Water proof hermetically closed

Rating VA	Reference	Dimensions mm			Weight Kg
		A	B	C	
100	EPC100	190	125	95	2,9
300	EPC300	220	170	120	5,5
600	EPC600	220	170	120	11,0

- * Other features, power, voltage, etc., on request.
- * Torytrans reserves the right to modify the information in any time and without prior notice.

