



Tortech

Total Transformer Solutions ABN. 31 801 764 359

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Why are Tortech Outdoor transformers so much more energy efficient?

The reason the Tortech range(>100va ratings) has such low idle current AND idle watts loss is due to the core construction of the toroidal transformer magnetic core.

The toroidal transformer (round / donut core) uses better quality core steel (grain orientated silicon steel) that has lower losses than conventional EI(square) transformers and the toroid transformer has no air gaps in the magnetic path of the core, further reducing the losses due to an unimpeded path for the magnetic flux to circulate.

How to calculate total power consumption per year:

Idle power in Watts x 24 x 365 / 1000 = KW Hour per Year

Note: If the input switch to the transformer is turned off there is no idle current losses.

TORTECH OUTDOOR GARDEN (12-24 V_{AC}) TRANSFORMERS IDLE (NO LOAD) INPUT CURRENT

Part number	No load/Input current (mA)	Idle Watts	Efficiency %	Part number	No load/Input current (mA)	Idle Watts	Efficiency %
HBW-40W	32.3	< 1 W	82.6	HBW-300B	28.7	3.3 W	91
HBW-60B	30.1	1.2 W	83.5	HBW-300A	28.8	2.9 W	91
HBW-60W	29.6	1.1 W	83.5	HBW-500B	24.9	4.3	92.7
HBW-105B	29.3	1.9 W	85	HBW-500A	28	4.3 W	92.7
HBW-200B	25.9	3.2 W	88				