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List of the Power Consumption of Typical Household Appliances

Turn that TV off if you're not watching it! It's wasting electrically!

How much electricity is it really wasting?, and would it not be better to switch off the 4 lights in the room?

The best way to compare the cost of running different appliances is to look at their power consumption, which is a measure of how much power they use in **Watts**. The following list points out typical values for the wattage of some devices you would find in your home so that you can compare them.

Appliance	Minimum	Maximum	Standby	Other Name(s)	References	Notes
100W light bulb (Incandescent)	100W	100W	0W		[1]	
25" colour TV	150W	150W	N/A			
3" belt sander	1000W	1000W	N/A			
32 Inch LED TV	20W	60W	1W			
46 Inch LED TV	60W	70W	1W		[1]	
49 Inch LED TV	85W	85W	1W			
60W light bulb (Incandescent)	60W	60W	0W		[1]	
9" disc sander	1200W	1200W	N/A			
American-style Fridge Freezer	40W	50W	N/A	American Fridge Freezer		
Ceiling Fan	60W	70W	0W		[1]	
Clock radio	1W	2W	N/A			
Clothes Dryer	1000W	4000W	N/A	Tumble Dryer		
Coffee Maker	800W	1400W	N/A			

Appliance	Minimum	Maximum	Standby	Other Name(s)	References	Notes
Computer Monitor	25W	30W	N/A		[1]	
Cordless Drill Charger	70W	150W	N/A			
Curling Iron	25W	35W	0W		[1]	
Desktop Computer	100W	450W	N/A		[1]	
Dishwasher	1200W	1500W	N/A			
Domestic Water Pump	200W	300W	0W	Shower Water Pump	[1]	
DVD Player	26W	60W	N/A			
Electric Blanket	200W	200W	N/A			
Electric Heater Fan	2000W	3000W	N/A		[1]	
Electric Kettle	1200W	3000W	0W			
Electric Mower	1500W	1500W	N/A			
Electric Shaver	15W	20W	N/A			
Electric Stove	800W	1000W	N/A			
Espresso Coffee Machine	1300W	1500W	N/A	Espresso Machine		
Extractor Fan	12W	12W	N/A		[1]	
Food Blender	300W	400W	N/A	Mixer, Food Processor	[1]	
Food Dehydrator	800W	800W	N/A	Tray Dehydrator	[1]	
Freezer	30W	50W	N/A			
Fridge / Freezer	150W	400W	N/A			
Fryer	1000W	1000W	N/A	Deep Fat Fryer	[1]	
Game Console	120W	200W	N/A		[1]	
Gaming PC	300W	600W	1W	Gaming Computer		
Garage Door Opener	300W	400W	N/A	Electric Garage Door		As the door only operates for a short time (10secs?) the kWh value is low

Appliance	Minimum	Maximum	Standby	Other Name(s)	References	Notes
Guitar Amplifier	20W	30W	N/A			
Hair Blow Dryer	1800W	2500W	N/A	Blow Dryer		
Heated Bathroom Mirror	50W	100W	N/A			
Home Air Conditioner	1000W	4000W	N/A			
Home Internet Router	5W	15W	N/A			
Home Phone	3W	5W	2W	DECT Telephone		
Home Sound System	95W	95W	1W		[1]	
Hot Water Dispenser	1200W	1300W	N/A	Instant Hot Water Tap	[1]	
Hot Water Immersion Heater	3000W	3000W	N/A			
Humidifier	35W	40W	N/A		[1]	
Induction Hob (per hob)	1400W	1800W	N/A	Induction Stove		
Inkjet Printer	20W	30W	N/A	Printer		
Inverter Air conditioner	1300W	1800W	N/A			
Iron	1000W	1000W	N/A	Electric Iron		
Laptop Computer	50W	100W	N/A	Laptop		
Lawnmower	1000W	1400W	N/A			
LED Light Bulb	7W	10W	0W	Energy Saver Bulb	[1][2]	
Mi Box	5W	7W	3W	Mi Box Android		
Microwave	600W	1700W	3W		[1][2]	
Night Light	1W	1W	0W			
Oven	2150W	2150W	N/A	Electric Oven		

Appliance	Minimum	Maximum	Standby	Other Name(s)	References	Notes
Paper Shredder	200W	220W	N/A			
Pedestal Fan	50W	60W	N/A			
Percolator	800W	1100W	N/A	Coffee Maker	[1]	
Phone Charger	4W	7W	N/A	Smart Phone Charger		
Power Shower	7500W	10500W	0W		[1]	
Pressure Cooker	700W	700W	N/A		[1]	
Projector	220W	270W	1W			
Refrigerator	100W	200W	N/A			
Rice Cooker	200W	500W	N/A		[1]	
Scanner	10W	18W	N/A			
Slow Cooker	160W	180W	N/A		[1]	
Straightening Iron	75W	300W	N/A	Hair Straighteners		
Strimmer	300W	500W	N/A			
Submersible Water Pump	360W	400W	N/A		[1]	
Table Fan	10W	25W	N/A	Desk Fan		
Tablet Charger	10W	15W	N/A			
Tablet Computer	5W	10W	N/A		[1]	
Toaster	800W	1800W	0W		[1]	
Treadmill	280W	900W	N/A			
Tube Light (1500mm)	22W	22W	N/A			
TV (19" colour)	40W	100W	1W		[1]	
Vacuum Cleaner	200W	700W	0W			
Wall Fan	45W	60W	0W			
Washing Machine	500W	500W	1W			In the EU, power consumption of Washing Machines is typically given in the form of Annual Power Consumption. This is calculated based on 220 standard washing cycles, made up as follows: 60°C full load (3x), 60°C half load (2x), 40°C half load (2x)

Appliance	Minimum	Maximum	Standby	Other Name(s)	References	Notes
						for 220 washing cycles.
Water Dispenser	100W	100W	N/A		[1]	
Water Feature	35W	35W	N/A			
Water Filter and Cooler	70W	100W	N/A		[1]	
Wine cooler (18 bottles)	83W	83W	0W		[1]	

An important point is also to bear in mind the length of time for which the device will be used. For example an electric blanket may be used for 2 hours, but a hair drier for 5 minutes. Therefore the blanket uses $200W \cdot 2 \text{ hours} = 0.4kWh$. The hair drier uses $2kW \cdot 0.0833\text{hours} = 0.1666kWh$. So using the blanket costs roughly 2.5 times as much as the hair drier.

All values reported here are estimates, you should check the appliance labels or literature to find out the correct power consumption.

Suggest New Appliance

Suggest a new appliance to add using the form below:

Further Reading and Relevant Articles



Some relevant online articles for further information and reading.

Does Having Appliances on Standby Use Power? [<http://www.energysavingsecrets.co.uk/does-appliances-standby-use-power.html>]

Comments For This Page

Mobile battery waat rating
By Sonu sN on 11th June 2019

nice.
By 123456789 on 24th May 2019

Tnx

On 7th May 2019

Thanks for useful contents

By Mohan singh on 13th April 2019

very helpful

On 24th March 2019

Can You add wall fan and school air-conditioner as soon as possible. Thank You!

On 17th March 2019

We run our office computers on solar electric, using low-power Portwell motherboards and survived a 13-day mains failure in a sunny period in December 2018. I added two solar panels, and am trying to run my medium size fridge on a sem-cloudy day today, following messenger power company failures. Gaborone, Botswana

By David Young on 16th February 2019

Thanks for the information

By Jack on 25th January 2019

I want to total Power Req On 9 ceiling fan / 51 Desktop / 51 Lights / 2 ton Ac 2nos how man re Wattas

On 17th January 2019

Now there are 12 volt appliances like 12v fridge, 12v freezer, 12v kettle, 12v hot plate stove, 12v dry iron with spray, 12v plasma TV (rechargeable), 12v sound systems (rechargeable), 12v hair dryer, 12v hair straightener, 12v led bulbs and security lights etc which avoids the use of an inverter. The inverter requires it's own power to run before it steps up power to run 220v appliances and has limitations depending how many watts the inverter is.

By Austin Menzi Moyo Snr on 27th December 2018

Hi, can you give an example (make & model) of a water purifier please?

By Daft Logic on 19th December 2018

can you add a water purifier please

thanks

On 18th December 2018

Thanks for the feedback matilda. We are looking to add more and even a form to allow others to request to add/modify entires.

By Daft Logic on 18th October 2018

could you please add some more appiance im curiouse about a lot :)

By matilda on 16th October 2018

Hi Brunis, do you have any examples? We are keen to reduce mistakes.

By Daft Logic on 3rd October 2018

I found your numbers outrageously high, i was looking for a date to confirm it was old non standards compliant equipment.

By Brunis on 3rd October 2018

Thank You. I found it helpful

On 7th September 2018

thank you

On 10th August 2018

Awesome! Thank you so much I have just received an 800\$ power bill I have something to show my husband!!!!!!

By JEWELZ on 12th July 2018

Inverter kitna watt consume karta hai

By Bhushan on 5th July 2018

Gizzmo, it applies to appliances no mater where they are.

By Daft Logic on 20th June 2018

Is this chart for use with UK appliance's

Gizmo on 20th June 2018

By Gizmo on 20th June 2018

Found it very usefull when buying my first Portable Inverter generator, which will allow me to power all of my home Observatory electrical equipment

By Green Dragon (U.K.) on 10th June 2018

Water Dispenser has been added

By Daft Logic on 13th April 2018

What about water dispenser

By Pradeep Joshi on 12th April 2018

this house doesn't have fridge

By aa on 13th March 2018

Do Ecg officers delete previous readings from the meter before reading current one or they continue from the previous month and subtract the current one from it? I want to know please.

On 16th January 2018

Thankyou for this Site it has been a help.

In the last year I upgraded my appliances etc cut down standbys and total power. Just 2years ago switched all house lights from 24w Energy saver to 8/10 w LED which cut the yearly power 7818 KWH to 6943KWH just on changing over to LED Lights. I have used the Clever watts meter to determine individual useage of appliances

Then upgraded appliances and in last year from 6943KWH to an unbelievable 2863KWH. There have been improvements in Appliances over the year.

The Major was changing the Immersion water heater (3300Watts) to an inverter water heater (1250Watts) Taking the waterheating Useage from 3509 to 1287 (saving 2222KWH) for the year. An older LCD38 in TV (Useage 236w and Standby 17w) to LG 49in TV HD(Not UHD) 38w and standby 1W at average 5hrs a day from 548KWH to 78KWH per year saving 1470KWH, An old 1990s fridge to samsung INVERTER FRIDGE similar size From 1600w per day to 492w (That is from 584KWH to 182KWH per year saving . Standby for microwave 4w. I went through and put items on standbys on two surge boards , ones that could be turned off and ones that needed to stay all the time eg Broadband Fibre. All these appliances have a pay back time of about 10years each before the power savings equal the cost. There are still opportunities for further reductions as we have an old air conditioner efficiency of 2.70 whereas newest ones can have a COF near 5. Even the inverter water heater further savings are being made by having a timer on it saving 17hours a day of the 19w standby power. At present we are saving 4955 KWH per year before LED and without a solar panel in sight. There were other small improvement, I had a fan heater for a small room in winter 2400W now use a \$10 400W Halogen heater instead. Appliances have changed since the data collected in 2008

By Papa2towa on 6th January 2018

Computers can use much more power. My personal PC has drawn up to 600W from the wall, and I know some who have seen it go to 1000W .

By Will on 19th December 2017

Watts are watts . 100 watts used for 1 hour is 100 watt hour or 0.1 kilowatt hours. For 1 day...multiply by 24 hours..

Equals 2.4 kilowatts.

On 19th November 2017

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