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LED TV POWER CONSUMPTION CALCULATOR



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Lets Save Electricity

JAYESH PATEL

Hi guys, I'm Jayesh Patel, a mechanical engineer by qualification. I have put together this website to share useful information on power consumption of household appliances, useful tips to save electricity and an easy guide on solar power generation system.



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If you are planning to buy a new LED TV or wondering how much electricity your existing LED TV is consuming then this article is for you. In this article, we will calculate the power consumption of an LED TV and also look at how much it costs to use one.

Ad removed. [Details](#)

LED TVs have wattage between 20 watts to 200 watts. Generally, the bigger the size of the LED TV, the higher the wattage, and the higher the power consumption.

A 43-inch LED TV rated at around 100 watts, running for 8 hours a day will consume around 0.8 kWh in a day, 24 kWh in a month, and 292 kWh in a month.

This would roughly translate to a monthly electricity cost of \$ 6.19 in the US, £ 8.64 in the UK, C\$ 3.24 in Canada, A\$ 7.68 in Australia, ₱ 232 in the Philippines, and Rs 240 in Mumbai, India.

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Read the article to know how you can calculate the power consumption of your LED TV using a simple calculator.

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How To Calculate The Power Consumption Of LED TV:

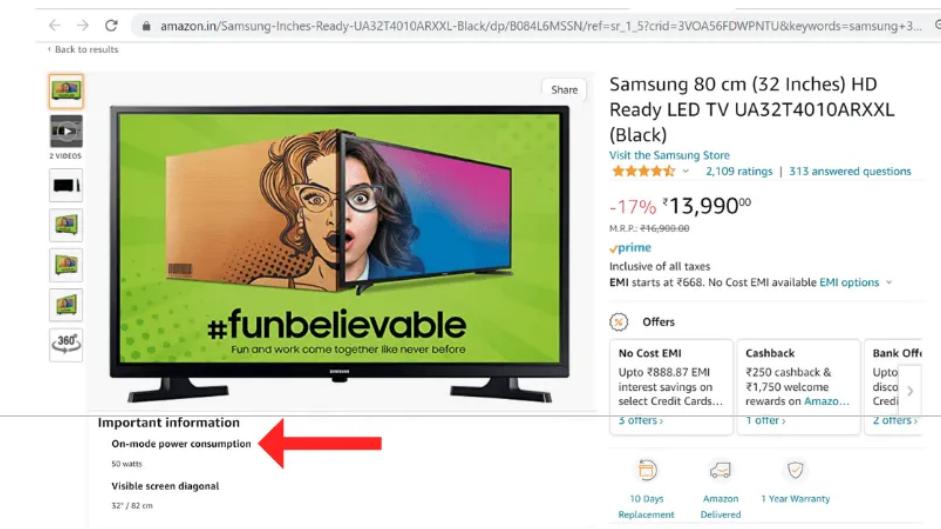
The power consumption of an LED TV (for that matter any electrical appliance) depends upon two main things,

1. First is the [wattage](https://letsaveelectricity.com/what-is-watt-w-kilowatt-kw-kilowatt-hour-kwh-unit-of-electricity/) (<https://letsaveelectricity.com/what-is-watt-w-kilowatt-kw-kilowatt-hour-kwh-unit-of-electricity/>) of your LED TV,
2. And second is the [electricity tariff](https://letsaveelectricity.com/what-is-watt-w-kilowatt-kw-kilowatt-hour-kwh-unit-of-electricity/) (<https://letsaveelectricity.com/what-is-watt-w-kilowatt-kw-kilowatt-hour-kwh-unit-of-electricity/>) in your area.

Before we jump into calculating the power consumption of our LED TV let's see what these terms are and how you can find out your [LED TV's wattage](https://letsaveelectricity.com/wattage-power-consumption-of-household-appliances/) (<https://letsaveelectricity.com/wattage-power-consumption-of-household-appliances/>) and the electricity tariff of your locality.

If you already know these terms and just want to use the calculator then please scroll down to use the calculator.

What Is The Wattage Of An LED TV:



← → C amazon.in/Samsung-Inches-Ready-UA32T4010ARXXL-Black/dp/B084L6MSSN/ref=sr_1_5?cid=3VOA56FDWPNTU&keywords=samsung+3... C

Back to results

Samsung 80 cm (32 Inches) HD Ready LED TV UA32T4010ARXXL (Black)

Visit the Samsung Store

★★★★★ 2,109 ratings | 313 answered questions

-17% ₹13,990⁰⁰

M.R.P.: ₹46,999⁰⁰

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Important information

On-mode power consumption 

50 watts

Visible screen diagonal

32" / 82 cm

10 Days Replacement

Amazon Delivered

1 Year Warranty

The wattage of LED TVs varies from 20 watts to 200 watts. Generally, the bigger the size of the TV, the higher the wattage.

For easy reference, In the table below, I have shown the wattage of different size LED TVs from Samsung, LG, and Sony.

LED TV SIZE	SAMSUNG LED TV	LG LED TV	SONY LED TV
24-inch LED TV	25 watts	30 watts	20 Watts
32-inch LED TV	50 watts	45 watts	51 Watts
43-inch LED TV	110 watts	110 Watts	96 Watts
55-inch LED TV	155 watts	160 Watts	142 Watts
65-inch LED TV	200 watts	195 Watts	180 Watts

A few things to note from the above table,

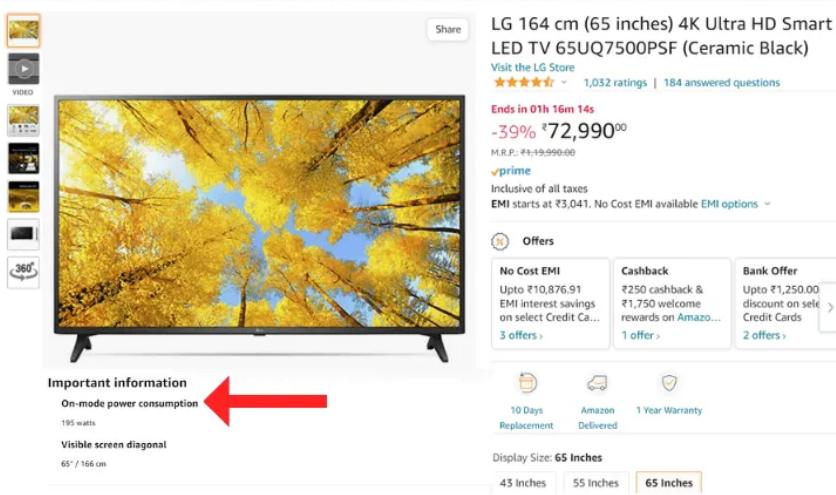
- **Bigger the TV size, the higher the wattage.** The wattage of a 24-inch LED TV is just 20 watts to 300 watts whereas, a 65-inch LED TV is rated at around 180 watts to 200 watts.

- **Irrespective of the brand, a specific size LED TV has similar wattage.** For example, a 43-inch LED TV from Samsung has 80 watts, LG has 110 watts and Sony has 96 watts.

The above values are average values, you can expect a 5% to 10% variation on either side depending on the screen resolution (720p or 1080p), the wattage of the speaker, and other features.

If you want the exact wattage of your LED TV, then **look for the technical specification label on its back or read the TV manual or just look for your LED TV on amazon** and you will find its wattage in the description section.





LG 65-inch LED TV: 195 Watts

If you don't have time to do this, then use values from the above table.

If this whole watt term is confusing you, then here is a quick explanation,

[Watt \(<https://letsavetelectricity.com/what-is-watt-w-kilowatt-kw-kilowatt-hour-kwh-unit-of-electricity/>\)](https://letsavetelectricity.com/what-is-watt-w-kilowatt-kw-kilowatt-hour-kwh-unit-of-electricity/) is the unit of power. It means the rate at which electricity is consumed or produced by a device. For example, a 50-watt TV consumes power at a rate of 50 watts per hour, it does not mean that the TV consumed 50 units of electricity, it means it will consume power at a rate of 50 watts every hour.

So in short, the wattage of an LED TV lies between 20 watts to 200 watts and you can find it by looking at the label on it. With that out of the way, let's look at what is electricity tariff.

What is your Electricity Tariff:

In simple words, **electricity tariff is the amount your electricity provider charges you for one unit (kWh) of electricity**. I live in Mumbai, India here the electricity tariff is Rs 12/kWh.

(What is a [Kilowatt hour \(kWh\) \(<https://letsavetelectricity.com/what-is-watt-w-kilowatt-kw-kilowatt-hour-kwh-unit-of-electricity/>\)](https://letsavetelectricity.com/what-is-watt-w-kilowatt-kw-kilowatt-hour-kwh-unit-of-electricity/)) – **Kilowatt hours or units of electricity is the energy consumption of a device**. For example, a 50-watt table fan running for 50 hours will consume $50 \text{ watts} \times 50 \text{ hours} = 2500 \text{-watt hours} = 2.5 \text{-kilowatt hours of electricity} = 2.5 \text{ units of electricity.}$ (1 kWh of electricity = 1 unit of electricity))

To find your electricity tariff, just look into your previous month's electricity bill and find out your monthly electricity consumption, then just divide your monthly electricity consumption by **your total monthly electricity bill, the figure you get is approximately your electricity tariff.**

I have put together the following table that shows the electricity tariff of a few countries.

Electricity Tariff Around The World:

COUNTRY	ELECTRICITY TARIFF	COUNTRY	ELECTRICITY TARIFF
United States	\$ 0.154/kWh	India	Rs 6/kWh
United Kingdom	£ 0.27/kWh	Germany	€ 0.44/kWh
Canada	C\$ 0.30/kWh	Philippines	₱ 9.70/kWh
Australia	A\$ 0.32/kWh	South Africa	R 2.558/kWh

Showing 1 to 4 of 4 entries

You can also check out the following resources to know your electricity tariff:

- https://www.globalpetrolprices.com/electricity_prices/
(https://www.globalpetrolprices.com/electricity_prices/)
- <https://www.statista.com/statistics/263492/electricity-prices-in-selected-countries/>
(<https://www.statista.com/statistics/263492/electricity-prices-in-selected-countries/>)

LED TV Power Consumption:

With these two pieces of information in hand, you are ready to find the power consumption of your LED TV.

Let me show you an example,



Important information

On-mode power consumption

96 watts

Visible screen diagonal

43'' / 110 cm

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Bank Offer
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10 Days Replacement | Amazon Delivered | 1 Year Warranty

Sony 43-inch LED TV: 96 Watts

I have selected a 43-inch LED TV from sony, it is rated at 96 Watts. (round it off to 100 watts for easy calculation)

Let's assume we will use this 100 watts LED TV for **8 hours every day for the entire year**.

With the knowledge of your LED TV wattage and your electricity tariff, just use this simple formula to calculate power consumption.

Power consumption of an appliance = Wattage of the appliance X operational hours

Cost to run an appliance = Power consumption of the appliance X electricity tariff

(Operational hours is basically the number of hours you are using your TV)

In our case, wattage is 100 watts and operational hours are 8 hours in a day, 240 hours in a month, and 2,920 hours in a year.

Hence by using the above formula.

- Daily power consumption of a 100 watts LED TV (8 hours) = 100 watts X 8 hours = 0.8 kWh
- Similarly, the Monthly power consumption of a 100 watts LED TV (8 hours/day @ 30 days) = 100 watts X 8 X 30 = 24 kWh
- And the annual power consumption of 100 watts LED TV (8 hours/day @ 365 days) = 100 watts X 8 * 365 = 292 kWh

Similarly, In the table below I have calculated the daily, monthly, and annual power consumption of different sizes of Sony LED TVs.

LED TV SIZE	LED TV DAILY POWER CONSUMPTION (8 HOURS)	LED TV MONTHLY POWER CONSUMPTION (240 HOURS)	LED TV ANNUAL POWER CONSUMPTION (2,920 HOURS)
24-inch LED TV (20 watts)	0.16 kWh	4.8 kWh	58.4 kWh
32-inch LED TV (51 watts)	0.41 kWh	12.24 kWh	148.92 kWh
43-inch LED TV (96 watts)	0.77 kWh	23.04 kWh	280.32 kWh
55-inch LED TV (142 watts)	1.14 kWh	34.08 kWh	414.64 kWh
65-inch LED TV (180 watts)	1.44 kWh	43.2 kWh	525.6 kWh

IMP NOTE: One thing I would like to point out is, the above figures show the maximum power consumption of an LED TV. However, in reality, the power consumption of an LED TV can be 10% to 40% lower than the above values.

The reason is, the brightness of your TV is not at max settings all the time, you are not using internet on your TV all the time, and the speakers are not blasting at full power all the time. All these features consume extra power which in turn increases the running wattage of your TV, thus, increasing the overall power consumption of a TV.

If you are not using these features the running wattage of the TV will be less, thus, the overall power consumption will be less.

How Much Does It Cost To Run A LED TV?

Continuing with our above example of a 43-inch LED TV from Sony, let's calculate how much it will cost us to run this TV.

Cost to run an appliance = Power consumption of the appliance X electricity tariff



let's calculate how much it will cost to run this 100 watts LED TV for 8 hours every day for an entire month in Mumbai (India), the US, UK, and Canada.

- In Mumbai, India, the avg. electricity tariff is around Rs 10 per kWh, hence it will cost around Rs 240 (24 kWh X Rs 10/kWh) to run this 100 watts LED TV for 8 hours every day for an entire month.
- In the US, the avg. electricity tariff is around 16.20 cents per kWh, hence it will cost around \$ 3.88 (24 kWh X 16.20 cents) to run this 100 watts LED TV for 8 hours every day for an entire month.
- In the UK, the avg. electricity tariff is around 36 pence per kWh, hence it will cost around £ 8.64 (24 kWh X 36p/kWh) to run this 100 watts LED TV for 8 hours every day for an entire month.
- In Canada, the avg. electricity tariff is around C\$ 0.156 per kWh, hence it will cost around C\$ 3.74 (24 kWh X C\$ 0.156/kWh) to run this 100 watts LED TV for 8 hours every day for an entire month.

For your reference, I have calculated the power consumption and running costs of 24-inch, 32-inch, 43-inch, 55-inch, and 65-inch LED TVs.

24-Inch LED TV Power Consumption And Running Cost:

The table below shows the power consumption and running cost of 24-inch Sony LED TVs.

LED TV Size: 24-inch

Wattage: 20 watts

24-INCH LED TV SIZE (20 WATTS)	DAILY POWER CONSUMPTION (8 HOURS)	MONTHLY POWER CONSUMPTION (240 HOURS)	ANNUAL POWER CONSUMPTION (2,920 HOURS)
Mumbai, India (Rs 10/kWh)	0.16 kWh, Rs 1.6	4.8 kWh, Rs 48	58.4 kWh, Rs 584
US (\$ 0.258/kWh)	0.16 kWh, \$ 0.04	4.8 kWh, \$ 1.23	58.4 kWh, \$ 15.06



24-INCH LED TV SIZE (20 WATTS)	DAILY POWER CONSUMPTION (8 HOURS)	MONTHLY POWER CONSUMPTION (240 HOURS)	ANNUAL POWER CONSUMPTION (2,920 HOURS)
UK (£ 0.36 /kWh)	0.16 kWh, £ 0.05	4.8 kWh, £ 1.72	58.4 kWh, £ 21.02
Canada (C\$ 0.156 /kWh)	0.16 kWh, C\$ 0.02	4.8 kWh, C\$ 0.74	58.4 kWh, C\$ 9.11
Philippines (₱ 9.70/kWh)	0.16 kWh, ₱ 1.55	4.8 kWh, ₱ 46.56	58.4 kWh, ₱ 566

32-Inch LED TV Power Consumption And Running Cost:

The table below shows the power consumption and running cost of 24-inch Sony LED TVs.

LED TV Size: 32-inch

Wattage: 51 watts

32-INCH LED TV SIZE (51 WATTS)	DAILY POWER CONSUMPTION (8 HOURS)	MONTHLY POWER CONSUMPTION (240 HOURS)	ANNUAL POWER CONSUMPTION (2,920 HOURS)
Mumbai, India (Rs 10/kWh)	0.41 kWh, Rs 4.10	12.24 kWh, Rs 122	148.92 kWh, Rs 1,489
US (\$ 0.258/kWh)	0.41 kWh, \$ 0.10	12.24 kWh, \$ 3.15	148.92 kWh, \$ 38.42
UK (£ 0.36 /kWh)	0.41 kWh, £ 0.14	12.24 kWh, £ 4.40	148.92 kWh, £ 53.61
Canada (C\$ 0.156 /kWh)	0.41 kWh, C\$ 0.06	12.24 kWh, C\$ 1.91	148.92 kWh, C\$ 23.23
Philippines (₱ 9.70/kWh)	0.41 kWh, ₱ 3.88	12.24 kWh, ₱ 118.72	148.92 kWh, ₱ 1,444

43-Inch LED TV Power Consumption And Running Cost:

The table below shows the power consumption and running cost of 24-inch Sony LED TVs.

LED TV Size: 43-inch



Wattage: 96 watts

43-INCH LED TV SIZE (96 WATTS)	DAILY POWER CONSUMPTION (8 HOURS)	MONTHLY POWER CONSUMPTION (240 HOURS)	ANNUAL POWER CONSUMPTION (2,920 HOURS)
Mumbai, India (Rs 10/kWh)	0.77 kWh, Rs 7.70	23.04 kWh, Rs 230	280.32 kWh, Rs 2,803
US (\$ 0.258/kWh)	0.77 kWh, \$ 0.19	23.04 kWh, \$ 5.94	280.32 kWh, \$ 72.32
UK (£ 0.36 /kWh)	0.77 kWh, £ 0.28	23.04 kWh, £ 8.29	280.32 kWh, £ 100.91
Canada (C\$ 0.156 /kWh)	0.77 kWh, C\$ 0.12	23.04 kWh, C\$ 3.59	280.32 kWh, C\$ 43.73
Philippines (₱ 9.70/kWh)	0.77 kWh, ₱ 7.47	23.04 kWh, ₱ 223	280.32 kWh, ₱ 2,719

55-Inch LED TV Power Consumption And Running Cost:

The table below shows the power consumption and running cost of 24-inch Sony LED TVs.

LED TV Size: 55-inch

Wattage: 142 watts

55-INCH LED TV SIZE (142 WATTS)	DAILY POWER CONSUMPTION (8 HOURS)	MONTHLY POWER CONSUMPTION (240 HOURS)	ANNUAL POWER CONSUMPTION (2,920 HOURS)
Mumbai, India (Rs 10/kWh)	1.14 kWh, Rs 11.40	34.08 kWh, Rs 340	414.64 kWh, Rs 4,146
US (\$ 0.258/kWh)	1.14 kWh, \$ 0.29	34.08 kWh, \$ 8.79	414.64 kWh, \$ 106.98
UK (£ 0.36 /kWh)	1.14 kWh, £ 0.41	34.08 kWh, £ 12.27	414.64 kWh, £ 149.27
Canada (C\$ 0.156 /kWh)	1.14 kWh, C\$ 0.18	34.08 kWh, C\$ 5.32	414.64 kWh, C\$ 64.68
Philippines (₱ 9.70/kWh)	1.14 kWh, ₱ 11.05	34.08 kWh, ₱ 330	414.64 kWh, ₱ 4,022



65-Inch LED TV Power Consumption And Running Cost:

The table below shows the power consumption and running cost of 24-inch Sony LED TVs.

LED TV Size: 65-inch

Wattage: 20 watts

65-INCH LED TV SIZE (180 WATTS)	DAILY POWER CONSUMPTION (8 HOURS)	MONTHLY POWER CONSUMPTION (240 HOURS)	ANNUAL POWER CONSUMPTION (2,920 HOURS)
Mumbai, India (Rs 10/kWh)	1.44 kWh, Rs 14.40	43.20 kWh, Rs 432	525.6 kWh, Rs 5,256
US (\$ 0.258/kWh)	1.44 kWh, \$ 0.37	43.20 kWh, \$ 11.14	525.6 kWh, \$ 135.60
UK (£ 0.36 /kWh)	1.44 kWh, £ 0.51	43.20 kWh, £ 15.55	525.6 kWh, £ 189.21
Canada (C\$ 0.156 /kWh)	1.44 kWh, C\$ 0.22	43.20 kWh, C\$ 6.73	525.6 kWh, C\$ 82
Philippines (₱ 9.70/kWh)	1.44 kWh, ₱ 13.96	43.20 kWh, ₱ 419	525.6 kWh, ₱ 5,098



LED TV Power Consumption Calculator:

Power Consumption Calculator:

Rated Power Of Your Appliance (Watt)

100 watt

1 Kilowatt = 1000 Watt

Daily Operational Hours (Hours)

1 hour

Electricity Tariff (Any currency)

Rs 12

Daily Units Consumed By The Appliance (kWh)

0

Monthly Units Consumed By The Appliance (kWh)

0

Annual Units Consumed By The Appliance (kWh)

0

Monthly Electricity Bill Because of This Appliance (Your Currency)

0

As I explained before, **the above figures show the maximum power consumption of your LED TV. However, in reality, the actual power consumption of your LED TV can be 10% to 40% lower than the above values** depending on your usage.

If you are not happy with the approximate results and you want to know the exact power consumption of your LED TV, then I would suggest you buy a cheap Kill-A-Watt Meter from amazon.



Calculate The Exact Power Consumption Of Any LED TV Using Kill A Watt Meter:

Kill A Watt Meter is a simple device that gives real-time data on the power consumption of any device.

You can check it on amazon using this link – Kill A Watt Electricity Usage Monitor

To calculate the power consumption of your LED TV using a kill-a-watt meter, first, connect your LED TV's plug into the kill-a-watt meter and then plug the kill-a-watt meter in your wall socket and you are good to go.

Then start using your TV and you can see in real-time how many kWh (units) of electricity it is consuming.

Do LED TVs Consume A Lot Of Electricity?

No, LED TVs don't consume a lot of electricity.

A 43-inch LED TV rated at around 100 watts, running for 8 hours a day will consume around just 24 kWh in a month, whereas, an average room heater rated at 1000 watts running for 8 hours a day will consume around 24 kWh of electricity in just 3 – 5 days.

The power consumption of LED TVs varies depending on the size and the brightness of the TV screen, the screen resolution (720p, 1080p, 4k, 8k), usage of the internet, and a few other features.

If you like this article then you will enjoy the ones below as well.

Check out the following articles to know the power consumption of other appliances:

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- [Power consumption of a dehumidifier. \(<https://letsaveelectricity.com/power-consumption-of-home-appliances/dehumidifier-power-consumption-calculator/>\)](https://letsaveelectricity.com/power-consumption-of-home-appliances/dehumidifier-power-consumption-calculator/)



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You can check out this article to know more about the [power consumption of common household appliances](https://letsaveelectricity.com/how-to-calculate-power-consumption-of-any-appliance/) (<https://letsaveelectricity.com/how-to-calculate-power-consumption-of-any-appliance/>).

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Aayjo.



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