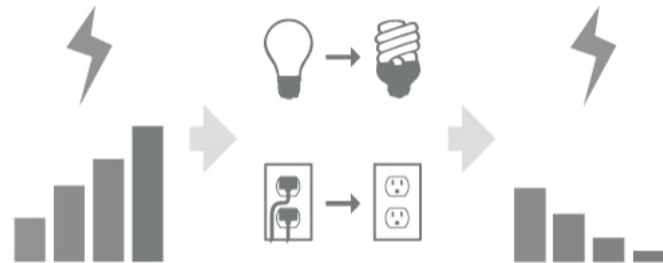


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Energy Efficiency Guide

Model: SE302

SE302 Energy Efficiency Guide

Welcome to our Home energy efficiency powermeter product.

Home energy efficiency powermeter is designated for saving energy and reduce carbon emission. It has become one of the advocator products in protecting our environment which has been earned good reputation and success around Europe and US. The principle is to use the powermeter to monitor and manage our electricity usage timely and effectively . So far, the product is leading in improving energy efficiency and reducing waste. It will cut 10 percent off from your electricity bill!

Please read this energy efficiency guide carefully. Reduce electricity use and protect our world with Home energy efficiency powermeter!

Concept of energy saving

Manage your electricity

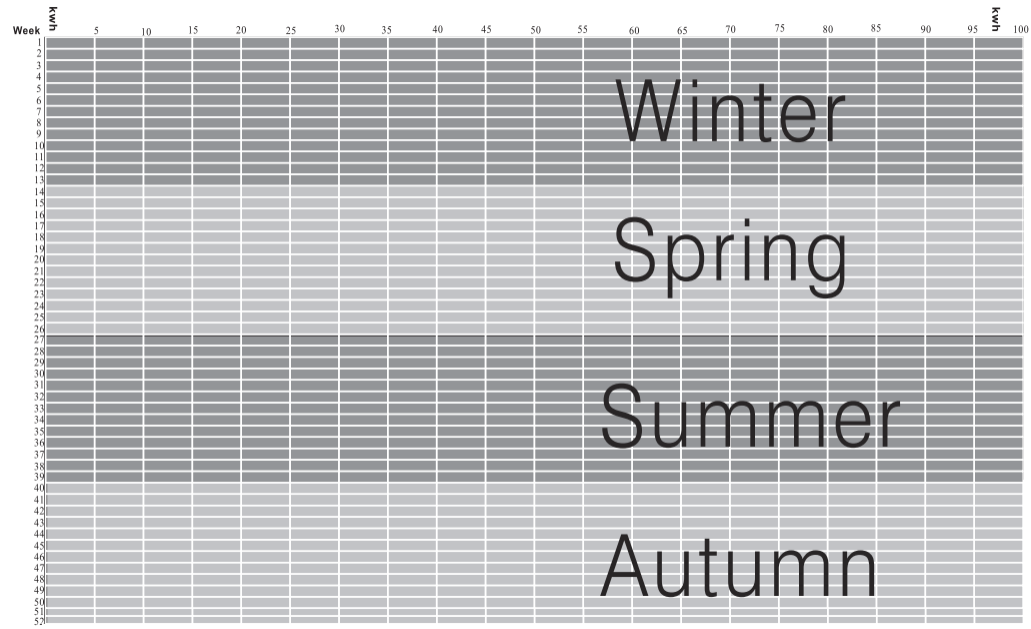
The easiest way to improve energy efficiency is to manage your electricity usage. For most of our family , around 10% - 20% of the electricity usage was wasted. Reduce energy waste equals to save real money to each family. Family can save this waste with the help of Home energy efficiency powermeter. To achieve better

management, you must learn where your energy was consumed, how much you cost and in time data about current and past electricity consumption. Improve your energy efficiency brings immediate economic benefit to each family. Our electricity price is increasing constantly and become a crucial problem to most of the families. The diagram below states the electricity production cost now is almost twice as much in year 2002.

About Our Energy

We are facing actual pressure from electricity supply. Countries around the world are capitalizing new power stations for satisfactory of increasing pressure from electricity usage.

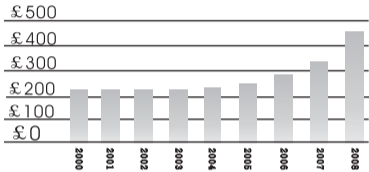
Not Only huge capitalization brings more pressure to our development, but also generating carbon emission to the environment. Most of the carbon and other greenhouse emissions come directly or indirectly from energy consumption. Electricity consumption occupy more than 60% among all energy consumption. According to the database published from the national electricity supply , one tonne of carbon emission is generated for every megawatt hour electricity usage. Although we still can not find alternatives to solve our energy supply problem, we should change our habit to eliminate wastage, make effort to seek more ways in saving energy and protect our



- Use frequency conversable air conditioners. Set the temperature of the air conditioner to maximum comfortable temperature and better for turning it off during nights. While the temperature is 25℃ and relative humidity is 50%, we feel most comfortable and heat balance. Lower than this temperature, will result in more consumption and uncomfortable. We suggest your Summer temperature to be adjusted to 25℃~28℃. Every 1℃ setting increased can save your electricity usage 6%~8%.

For environmental protection education purpose, please ask your kids to fill below table by using Home energy efficiency powermeter. Fill the table patiently and send it to the published address on www.fmg-tech.com , you will earn a surprising gift!

environment immediately! The diagram below states the electricity production cost now is almost twice as much in year 2002.



Government and organizations' dedication

Copenhagen's conference against climate and environment change 2009 was known as ‘ last chance to save ourselves’ , it suggested us to

reduce greenhouse gas emission. Google released its energy monitoring powermeter network in the conference. Google powermeter is free to the publics in order to advocate our energy saving concept. For every 5% of electricity every family has saved together, this equals to 40 million vehicles' gas emission or alternatively cutting 50 large scaled electricity plants from the Google powermeter website. UK guaranteed to save up to 40% of carbon emission till 2012. The UK government requires electricity suppliers to offer Home energy efficiency powermeter to 1.9million families each year in order to educate citizens about cutting their electricity usage.

Home energy efficiency powermeter can help you

Though most consumers showed their interest in protecting the environment , most of them are short of efficient ways and proper tool in cutting their spend. However , Home energy efficiency powermeter works as the guide to monitor and mange your electricity efficiently. It updates you electricity devices' energy consumption, then suggests you how to save money.

Monitor your electricity usage

The best time to monitor your home electricity usage of electric devices is the outdoor time. You can learn which device is still consuming electricity and how much it consumed without staying at home with the help of Home energy efficiency powermeter. You can manage your electricity efficiently in this way by shutting down the devices because most of them cost lots of energy even under the status of standby. You can know exact energy consumption for a single device by reading the powermeter for both on and off of the device. Stop switching on

the machine and monitor of your PC after use. Don't remain standby. Turn your printer off rather than standby.

- Use programmable thermostat to adjust to a comfort temperature.
- Close your windows to avoid energy dissipation , only open them when necessary.
- Use simple shower rather than a bath. The temperature should set between $45^{\circ}\text{C} \sim 55^{\circ}\text{C}$. Shower save 50% of hot water and electricity than bath.



- In summer , blind or curtain should remain closed during the day and open it for night. Do the reverse way in winter.

watt energy saving lamp equals to the same brightness of a 60 watt lamp. If you got 6 lamps , you can learn how much to save each year by check up with the powermeter.

M Y			
60W incandescent light	360W	¥29.4	¥352.8
11W Energy saving light	66W	¥5.4	¥64.6
Energy saving	294W	¥24	¥288.2

- Use auto inductive lights rather than outdoor lights remain opened.
- Dry your dishware naturally rather than using a dishwasher.

- In use of a washing machine or dishwasher, better to full the capacity because half load consumes same electricity as full load.
- Fridge door and ice cube doors should be remained shut. In summer , a fridge setting 5℃ is consuming more than 10kw than setting 8℃ , and worse effort ! normal food is best safe for 8℃ ~10℃. -14℃ in the refrigerating room saves more electricity than -18℃.
- Use an integrated socket for plugging your home entertaining electric products , unplug the socket while not in use.
- Shut down your PC and laptops during nights. Do not use standby. Set the standby responding time for your PC as 5~10 minutes. Shut down

this large electricity usage device while not necessary. It is easy to operate and monitor at home , having a rest or taking a walk.



Know your electricity usage

Electricity usage is directly linked to the size of the house and housing conditions. Normally it is not similar for energy consumption among families. In China, home electricity usage is about five kilowatt hour per day , equaling to 5.4 RMB cost , that is 1224 RMB cost per year. (source from: electricity marketing office) The table below shows the home electricity devices' power and consumption.

Power and electricity consumption of Common Household Appliances

Appliance	Power(Watt)	Electricity consumption(kwh)
Wall-mounted air conditioner	800~1300	0.8~1.3 per hour
Household refrigerator	65~130	0.85~1.7 per day
Washing machine	380	0.38 per hour
Microwave oven	950	0.16 per 10 minutes
	1500	0.25 per 10 minutes
Electric Shower	1200~2000	1.2~2 per hour
Electric kettle	1200~1500	1.2~1.5 per hour
Electric cooker	500~750	0.16 per 20 minutes
Electric iron	750	0.25 per 20 minutes
Hair dryer	450	0.04 per 5 minutes
Vacuum Cleaner	400	0.10 per 15 minutes
	850	0.21 per 15 minutes
Ceiling fan(big)	150	0.15 per hour
Ceiling fan(small)	75	0.08 per hour
Electric fan	66	0.07 per hour
Television(21inch)	70	0.07 per hour
Television(25inch)	100	0.1 per hour
DVD	60	0.06 per hour
Power Amplifier	100~200	0.1~0.2 per hour
Electric heater	1600~2000	1.6~2.0 per hour

Electricity usage analysis

Home energy efficiency powermeter enable you to check up historical data by entering the history mode. Learn about the electricity usage of last 7 hours, 7 days , 7 weeks or 24 months. With the historical data, the number of electricity devices in use can be known quickly. For example, you can see energy consumption increase quickly in several seconds by monitoring the power consumption on the powermeter. (a normal kettle's power is 2KW) Generally a kettle used for four times per day , 2 to 3 minutes to complete boiling , equals the power consumption of 0.4 kilowatt hour (2Kw×12min×1/60min=0.4kilowatt hour) 。

Easy to achieve energy saving

In many ways we can save our electricity usage , then why we need Home energy efficiency powermeter? The powermeter monitors entire home's electricity usage and assists you to save energy . It also cut your cost and helps your neighborhood!

Some skills about saving your electricity and managing usage can be applied:

- Please shut your light if you are leaving the room , even in use of LED energy saving lamps. Lamps are consuming 6%-10% family electricity usage each year. Apply LED energy saving lamps will save up to 75% electricity comparing with normal lamps , and 10 times life as well.A 11