

Energy Use of Common Residence Hall Appliances

Fall 2023

| Electronics | Active (watts) | Idle or Sleep Mode (watts) | Off (watts) |
|----------------------------|----------------|----------------------------|-------------|
| Desktop computer | 60 | 5 | ~1 |
| Computer Monitor - LCD 21" | 20 | 2 | ~1 |
| Inkjet Printer | 20 | 5 | ~1 |
| Laptop Charger | 60 | 1 | n/a |
| Cell Phone Charger | 6 | 1 | n/a |
| Tablet Charger | 12 | 1 | n/a |
| Wireless Router | 7 | n/a | n/a |
| Portable MP3 Speakers | 23 | 3 | ~1 |
| Alarm Clock | 2 | n/a | n/a |
| LED TV - 24" | 40 | n/a | ~1 |
| LED TV - 32" | 55 | n/a | ~1 |
| Playstation 4 | 145 | 90 | 10 |
| Xbox One | 115 | 70 | 20 |
| Wii U | 30 | 30 | ~1 |

| Appliances | Active (watts) | Idle (watts) | Off (watts) |
|---|----------------|--------------|-------------|
| Keurig Coffee Machine | 1300 | 8 | 2 |
| Standard fridge - 1.7 cu ft (cube size) | 30 | n/a | n/a |
| Standard fridge - 4.5 cu ft (desk height) | 33 | n/a | n/a |
| EnergyStar fridge - 1.7 cu ft (cube size) | 24 | n/a | n/a |
| EnergyStar fridge - 4.5 cu ft (desk height) | 26 | n/a | n/a |
| Microwave | 1500 | n/a | 3 |
| Toaster | 830 | n/a | ~1 |
| Electric Range Stovetop | 1500 | n/a | 2 |
| Electric Oven | 2000 | n/a | 2 |
| Washing machine (hot/warm water) | 4000 | n/a | 2 |
| Washing machine (cold water) | 300 | n/a | 2 |
| Clothes dryer | 3000 | n/a | 2 |
| Hair dryer | 1300 | n/a | ~1 |
| Flat iron hair straightener | 330 | n/a | ~1 |

| Lighting | Incandescent Bulb (watts) | CFL Equivalent (watts) | LED Equivalent (watts) |
|-------------------|---------------------------|------------------------|------------------------|
| Average lightbulb | 60 | 15 | 8 |

Sources:

American Council for an Energy-Efficient Economy - Miscellaneous Energy Loads in Buildings - ACEEE.org

Department of Energy Usage Statistics - Energy.gov

EnergyUseCalculator.com

Various individual product usage statistics taken from their respective product pages