

Energy Use of Common Dorm Room Appliances

Computer equipment

| Product | Active (watts) | Idle (watts) | Off (watts) |
|---------------------------------|----------------|--------------|-------------|
| Desktop computer ¹ | 75 | 5 | 2 |
| Laptop ¹ | 25 | 2 | 2 |
| Monitor - CRT ¹ | 61 | 2 | 1 |
| Monitor - LCD 15" ¹ | 20 | 1 | 1 |
| Monitor - LCD 19" ¹ | 35 | 1 | 1 |
| Inkjet printer ¹ | 8.9 | 3.2 | 1.7 |
| All-in-one printer ¹ | 15.2 | 9.1 | 6.2 |
| Wireless router ² | 7 | n/a | n/a |

Entertainment equipment

| Product | Active (watts) | Idle (watts) | Off (watts) |
|---|----------------|--------------|-------------|
| Stereo ¹ | 23 | 16 | 7 |
| Clock radio ¹ | 2 | n/a | 1.7 |
| DVD player ¹ | 13 | 10 | 2.3 |
| TV - average rear projection ² | 211 | n/a | ~1 |
| TV - average plasma ² | 339 | n/a | ~1 |
| PlayStation3 ^{2,6} | 197 | n/a | ~1 |
| XBox360 ^{2,6} | 170 | n/a | ~1 |
| Wii ^{2,6} | 19 | n/a | ~1 |

Chargers ¹

| Charger type | No load (watts) | Maintaining charge (watts) | Charging (watts) |
|-------------------------|-----------------|----------------------------|------------------|
| Cordless phone charger | 2.3 | 3.1 | 4.0 |
| Cell phone charger | 0.3 | 0.5 | 2.6 |
| Digital camera charger | 0.4 | 0.4 | 3.0 |
| MP3 player charger | 0.3 | 0.6 | 1.7 |
| Toothbrush charger | 1.7 | 1.7 | 1.7 |
| Shaver charger | 0.3 | 0.7 | 2.3 |
| Battery charger | 1.1 | 3.1 | 11.8 |
| Cordless vacuum charger | 0.8 | 3.7 | 4.7 |

Light bulbs ⁴

| Light produced (lumens) | Incan-descent (watts) | CFL (watts) |
|-------------------------|-----------------------|-------------|
| 450 | 40 | 7 |
| 800 | 60 | 15 |
| 1,100 | 75 | 20 |
| 1,600 | 100 | 23 |
| 2,600 | 150 | 35 |

¹ DOE. (2007). "Residential Miscellaneous Electric Loads: Energy Consumption Characterization and Savings Potential."

² CNET (CBS online). reviews.cnet.com/4520-6475_7-6400401-2.html

³ DOE. www.energysavers.gov/your_home/appliances/index.cfm/mytopic=10040

⁴ Mr. Beams. www.mrbeams.com

⁵ DOE EnergyStar Criteria. www.energystar.gov/ia/products/appliances/refrig/NAECA_calculation.xls. Note that "standard" values are the maximum allowed by National Appliance Energy Conservation Act.

⁶ Lawrence Berkeley National Lab.

Kitchen equipment

| Product | Active (watts) | Idle (watts) | Off (watts) |
|--|----------------|--------------|-------------|
| Standard fridge - 1.7 cu ft (cube size) ⁵ | 30 | n/a | n/a |
| Standard fridge - 4.5 cu ft (desk height) ⁵ | 33 | n/a | n/a |
| EnergyStar fridge - 1.7 cu ft (cube size) ⁵ | 24 | n/a | n/a |
| EnergyStar fridge - 4.5 cu ft (desk height) ⁵ | 26 | n/a | n/a |
| Coffee maker ¹ | 1,100 | 70 | 0.4 |
| Microwave ¹ | 1,500 | n/a | 3 |
| Toaster ¹ | 1,050 | n/a | n/a |