



# ENERGY STAR CERTIFIED Televisions

## Samsung - QN77S90DAF : QN77S90DAF

| Specifications  |   |
|---|---|
| ENERGY STAR Unique ID:  | 3354312   |
| Brand Name:   | Samsung   |
| Model Number:   | QN77S90DAF  |
| Model Name:   | QN77S90DAF  |
| Application:  | Consumer  |
| Display Type:   | OLED  |
| Backlight Technology Type:  | OLED  |
| Resolution Format:  | 4K (UHD)  |
| Native Vertical Resolution (pixels):  | 2160  |
| Native Horizontal Resolution (pixels):  | 3840  |
| High Contrast Ratio (HCR) Display:  | Yes   |
| Automatic Brightness Control:   | Yes   |
| Is Automatic Brightness Control Enabled by Default in the Default SDR Preset Picture Setting When Television is Shipped?: | No  |
| Low Power Wireless Technologies Supported:  | Bluetooth   |
| Features:   | High Dynamic Range Upscaling,Wake-On-Cast Compatibility,Control Via Remote Control App,Control Via Smart Speaker,Upconversion,Motion-based Dynamic Dimming (MDD) (also known as Motion Eye Care),Automatic Brightness Control,User Adjustable Backlight |
| Reported Annual Energy Consumption (kWh):   | 297.9   |
| Power Consumption in Standby Mode when Not Connected to a Network (watts):  | 0.3   |
| Power Consumption in Standby Mode when Connected to a Network (watts):  | 0.6   |
| Average On Mode Power Consumption for Certification (watts):  | 160.93  |
| Reported On Mode Power (per the Federal Test Procedure) (watts):  | 160.93  |
| Diagonal Viewable Screen Size (in.):  | 76.7  |
| Date Certified:   | 2023-12-17  |
| Markets:  | United States   |
| ENERGY STAR Certified:  | Yes   |

## Additional Model Information

QN77S90DDF,QN77S90DDF,Same as basic model except model designation; QN77S92DAF,QN77S92DAF,Same as basic model except model designation

**Captured On:**  
04/25/2025