



## ENERGY STAR CERTIFIED Televisions

### Samsung - QN48S90FAE : QN48S90FAE

#### Specifications

|                                                                                                                           |                                                                                                                                                                                                                                        |
|---------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ENERGY STAR Unique ID:                                                                                                    | 3994229                                                                                                                                                                                                                                |
| Brand Name:                                                                                                               | Samsung                                                                                                                                                                                                                                |
| Model Number:                                                                                                             | QN48S90FAE                                                                                                                                                                                                                             |
| Model Name:                                                                                                               | QN48S90FAE                                                                                                                                                                                                                             |
| 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:                                                                                                                 | Quick Start,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):                                                                                 | 161.18                                                                                                                                                                                                                                 |
| Average On Mode Power Consumption for Certification (watts):                                                              | 84.9                                                                                                                                                                                                                                   |
| Reported On Mode Power (per the Federal Test Procedure) (watts):                                                          | 84.9                                                                                                                                                                                                                                   |
| Measured Standby Mode Power (Watts):                                                                                      | 0.9                                                                                                                                                                                                                                    |
| Diagonal Viewable Screen Size (in.):                                                                                      | 47.5                                                                                                                                                                                                                                   |
| Date Certified:                                                                                                           | 2025-02-05                                                                                                                                                                                                                             |
| Markets:                                                                                                                  | United States                                                                                                                                                                                                                          |
| ENERGY STAR Certified:                                                                                                    | Yes                                                                                                                                                                                                                                    |

#### Additional Model Information

QN48S90FDE,QN48S90FDE,Same as basic model except model designation; QN48S92FAE,QN48S92FAE,Same as basic model except model designation

Captured On:  
05/22/2025