

| Photovoltaic Technology | Photovoltaic Efficiency, % | | | Flexibility | Remarks |
|----------------------------------|----------------------------|----------------|----------------|-----------------------|---|
| | *Record Cell | *Record Module | Typical Module | | |
| Crystalline Silicon | | | | | |
| Single Crystalline Silicon | 29.7 | 27.7 | 12-16 | Rigid | <ul style="list-style-type: none"> Fully Mature Technology Further Reduction in Price or Increase in Performance Difficult |
| Polycrystalline Silicon | 20.3 | 15.3 | 10-12 | Rigid | <ul style="list-style-type: none"> Similar to Single Crystalline Silicon |
| String Ribbon Silicon | 16.6 | 8.2 | | Rigid | <ul style="list-style-type: none"> Similar to Single Crystalline Silicon |
| Thin-Film | | | | | |
| Amorphous Silicon | 12.7 | N/A | 5-7 | Rigid/ Some Flexible | <ul style="list-style-type: none"> Requires Hazardous Gases Low Performance No Clear Pathway to Increase Efficiency Exhibits Instability |
| Multi-Junction Amorphous Silicon | 12.4 | 10.4 | 6-8 | Rigid | <ul style="list-style-type: none"> Similar to Amorphous Silicon |
| Cadmium Telluride | 16.5 | 10.7 | 7-8 | Rigid | <ul style="list-style-type: none"> Toxicity of CdTe is an Issue No Clear Pathway to Increase Efficiency Requires Superstrate Configuration |
| Copper Indium Gallium Diselenide | 26.2 | 24.4 | 11-14 | GSF Solar is Flexible | <ul style="list-style-type: none"> Economical Material and Processes Highest Performance Thin Film Clear Pathways to Improve Performance Compatible with Flexible Substrates and Economical Roll-to-Roll Processing |