

What is a PM6 Py-V based device?

The PM6:PY-V- g -based device yields a PCE of 17.3%, with a VOC of 0.909 V, a JSC of 25.2 mA cm⁻² and an FF of 75.7%.

What is the photovoltaic performance of 65 m & 55-m devices?

The photovoltaic performance of the 65-mm and 55-mm devices is shown in Fig. 3c. The short-circuit current density (Jsc), open-circuit voltage (Voc), fill factor (FF) and PCE are 37.65 ± 0.09 mA cm⁻², 0.752 ± 0.002 V, 82.40 ± 0.99% and 23.31 ± 0.33%, respectively, for the 65-mm device.

Do flexible SHJ modules address load-bearing issues in building-integrated photovoltaics?

The flexible SHJ modules demonstrated in this study may address the load-bearing issue encountered in the fast-growing research field of building-integrated photovoltaics and enable c-Si solar modules to be attached to building walls with either flat or curved surfaces.

Why is pyo-V used in pm6-py-V host system?

The introduction of PYO-V into the PM6:PY-V- g host system complements its absorption spectrum, improving its molecular packing, suppressing its charge recombination, and enhancing its polaron generation efficiency.

What is the mass-to-power ratio of SHJ solar modules?

At the module level, the flexible SHJ modules are free from heavy glasses and back sheets (Supplementary Figs. 8 and 9), which results in an extremely small mass-to-power ratio of 2.31 g W⁻¹ that is much less than the values of 45.57 g W⁻¹ and 82.93 g W⁻¹ for standard monofacial and bifacial c-Si solar modules, respectively (Fig. 3f).

Why are PCE values higher than JSC values for flexible SHJ solar cells?

These PCEs are higher than the value of 19.67 ± 0.34% for flexible SHJ solar cells fabricated using 60-mm quasiplanar wafers because of the higher Jsc values of 65-mm (37.65 mA cm⁻²) and 55-mm (37.59 mA cm⁻²) devices compared with that of the 65-mm wafer (31.45 mA cm⁻²; Supplementary Fig. 7).

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Photovoltaic bracket Han Yue

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