







Encapsulation Solar cells are thin & brittle and need to be exposed to outdoor conditions for 25-30 years A physical casing (encapsulation) protects the PV cells and provide structural strength Accomplishes Electrically isolate cells and make contacts Protect from water and oxygen ingress Withstand heavy winds, hail & installation

- Maintain protection for decades
- Allow modules to attach to each other

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By-Pass Diode	
 The destructive effects of h be circumvented through th diode A diode is connected in par but with opposite polarity The maximum reverse bias is reduced to about the single sector of the single sector of the secto	allel with the solar cell across the 'poor' cell
	21

































