



Photovoltaic and Battery Protection

Protect your biggest investment

PV System Diagram

Circuit Breakers in DC Applications

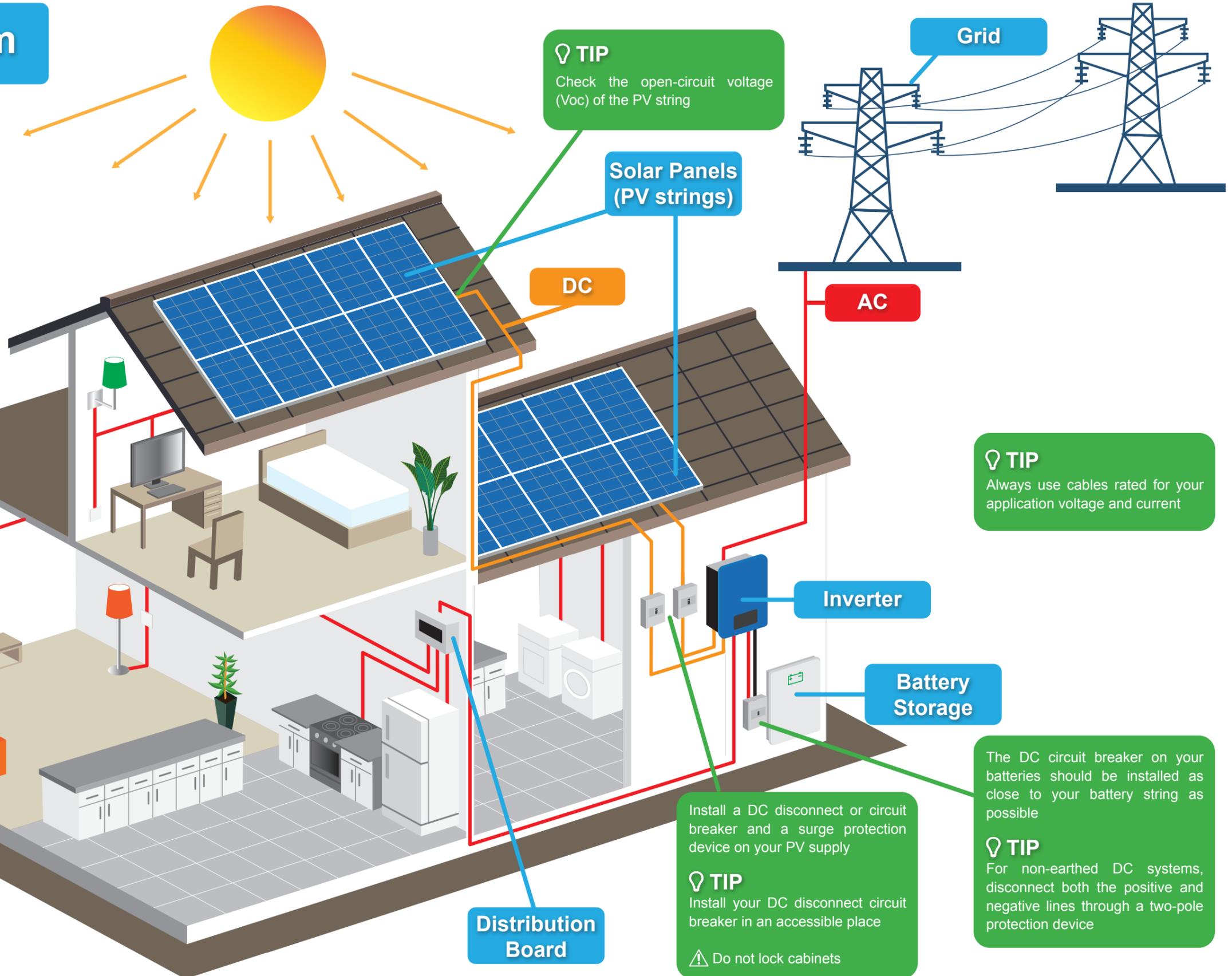
- ✓ Use circuit breakers specially marked with DC rating.
- ⚠ Never use AC-rated circuit breakers. AC circuit breakers could fail catastrophically when protection is needed the most. It may lead to property damage and personal injury.
- ✓ Use DC circuit breakers rated greater or equal to the:
 - ✓ maximum open-circuit voltage
 - ✓ maximum continuous current
 - ✓ prospective short-circuit current

DC Circuit Breaker

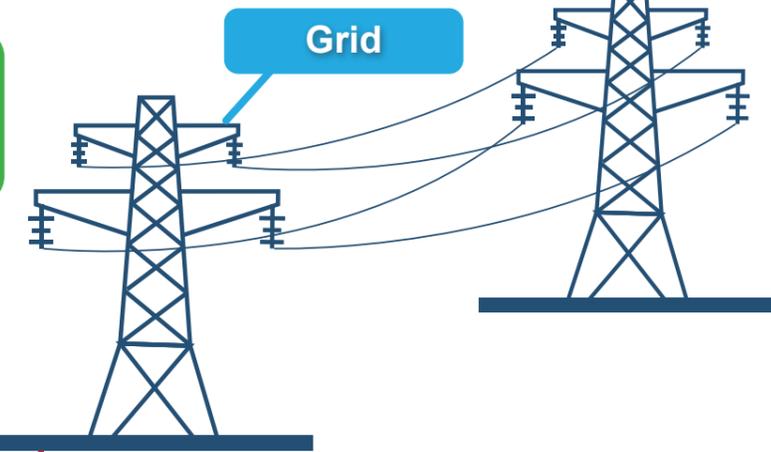
AC Circuit Breaker



⚡ TIP



⚡ TIP
Check the open-circuit voltage (Voc) of the PV string



⚡ TIP
Always use cables rated for your application voltage and current

Install a DC disconnect or circuit breaker and a surge protection device on your PV supply

⚡ TIP
Install your DC disconnect circuit breaker in an accessible place

⚠ Do not lock cabinets

The DC circuit breaker on your batteries should be installed as close to your battery string as possible

⚡ TIP
For non-earthed DC systems, disconnect both the positive and negative lines through a two-pole protection device

Disclaimer: The information in this diagram is for information purposes only. Always adhere to regulations and OEM installation instructions for the equipment and topology used.

OUR OFFERING

Series	Features	Mount	Recommended Application	Module Width	Voltage (up to)	Current (up to)
DD-frame 	<ul style="list-style-type: none"> Hydraulic-magnetic Technology 100% rated Configurable terminals and handle options 	Front Panel (64 mm)	High capacity battery 	1 19 mm	80 Vdc	100 A
				1+1 38 mm	80 Vdc	100 A
				2 38 mm	80 Vdc	200 A
				3 57 mm	80 Vdc	250 A
				4 76 mm	80 Vdc	350 A
QDC(13) 	<ul style="list-style-type: none"> Hydraulic-magnetic Technology 100% rated Trip indication (mid trip) 	DIN rail (45 mm) Dual mount (57 mm) Fits DIN and mini rail	Battery (up to 80 Vdc*)  PV String 	1 13 mm	80 Vdc	63 A
				2 26 mm	125 Vdc*	63 A
					80 Vdc	100 A
				3 39 mm	125 Vdc*	100 A
250 Vdc*	50 A					
4 52 mm	80 Vdc	200 A				
Y-frame 	<ul style="list-style-type: none"> Hydraulic-magnetic Technology 100% rated 	DIN rail (45 mm) Dual mount (57 mm) Fits DIN and mini rail	PV String 	1 13 mm	300 Vdc	50 A
				2 26 mm	600 Vdc	50 A
				1+1 26 mm	300 Vdc	50 A
				2+2 52 mm	600 Vdc	32 A

Watch this space for new products

* QDC(13) 125 Vdc is polarised with respect to current flow and not recommended for battery storage

  or   = excellent

   or    = superior

Contact CBI for photovoltaic and battery protection solutions - www.cbi-lowvoltage.co.za - solar@cbi-electric.com

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