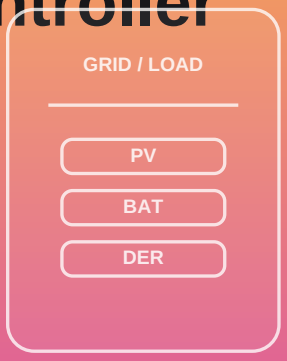
Powerlily Sample Backup Controller

PL-200MID

A fictional 200 A microgrid interconnection device with an integrated distribution bus for residential backup-system demonstrations.



POWERLILY SAMPLE EQUIPMENT

Key specifications

Rated current	**200 A**
Continuous current	**160 A**
Nominal AC voltage	**240 V**
Busbar rating	**200 A**
Phases	**1 (120/240 V split-phase)**
Short-circuit rating	**22 kA**

Integrated distribution

PV and storage can land on dedicated source connections instead of backfeeding the existing home-panel busbar.

Whole or partial home

The sample controller supports both whole-home and partial-home backup arrangements.

Service-entrance rated

Modeled as a 120/240 V split-phase service-entrance-rated isolation and distribution device.

POWERLILY

Powerlily Sample Backup Controller

PL-200MID | SAMPLE DATA

Product details	
Model number	PL-200MID
Description	Sample microgrid interconnection device with its own 200 A distribution bus. PV and storage land on its source connections, and its backed-up output feeds the home panel, so neither source backfeeds the existing busbar.
Form factor	Enclosure
Electrical topology	Integrated distribution
Limited warranty	10 years

Service ratings	
Nominal AC voltage	240 V
Phases	1 (120/240 V split-phase)
Poles	2
Frequency	60 Hz
Rated current	200 A
Continuous current	160 A
Busbar rating	200 A
Maximum overcurrent	200 A
Short-circuit rating	22 kA
Neutral switching	Solid
Service entrance rated	Yes

Backup capabilities	
Whole-home backup	Supported
Partial-home backup	Supported
Generator support	No

Grid and load ports	
Grid port	Grid side; internal or external protection; 160 A continuous; 200 A max OCPD; 100/125/150/175/200 A breaker options
Load port	Backup side; internal or external protection; 160 A continuous; 200 A max OCPD; 100/125/150/175/200 A breaker options

DER source ports	
PV port	Backup side; internal protection; 80 A max OCPD; 20/30/40/60/80 A breaker options
Battery port	Backup side; internal protection; 80 A max OCPD; 20/30/40/60/80 A breaker options
Shared DER port	PV or battery; backup side; internal protection; 80 A max OCPD; 20/30/40/60/80 A breaker options

Certification / notes	
Certification	UL 1741 SB (IEEE 1547); UL 67; CSA C22.2 No. 107.1
Compatibility notes	Sample product. 120/240 V split-phase; 200 A bus with a 160 A continuous rating. The third source connection accepts PV or storage, so two sources can share it through a combiner.