Powerlily Sample Three-Phase String Inverter

PL-15000S3

A fictional 15 kW, 480 V three-phase string inverter for commercial PV modeling without DC optimizers.



POWERLILY SAMPLE EQUIPMENT

Key specifications

Rated AC power	**15.0 kW**
Nominal AC voltage	**480 V**
Max DC power	**22.5 kW**
Efficiency	**98.0%**
MPPT operating range	**250-800 V**
Phases	**3**
Dimensions (H x W x D)	**28.0 in x 21.0 in x 9.0 in**
DC optimizer policy	**Unsupported**

Commercial three-phase

Models a straightforward 480 V three-phase string-inverter architecture.

Three MPPTs

Two strings per MPPT with a representative 250-800 V tracking window.

No optimizers

The sample is intentionally modeled as optimizer-unsupported.

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PL-15000S3 | SAMPLE DATA

Product details	
Model number	PL-15000S3
Description	Sample 480 V three-phase string inverter for commercial PV without optimizers. DC current limits are per MPPT.
Inverter type	String
Limited warranty	12 years

DC input	
Maximum DC power	22,500 W
Maximum DC power per MPPT	7,500 W
Number of MPPTs	3
Strings per MPPT	2
Maximum input voltage	1,000 V
Minimum input voltage	200 V
MPPT operating range	250-800 V
Maximum input current per MPPT	26.0 A
Maximum short-circuit current per MPPT	30.0 A

AC output	
Rated AC power	15,000 W
Nominal AC voltage	480 V
Phases	3
Efficiency	98.0%

Mechanical data	
Dimensions (H x W x D)	28.0 in x 21.0 in x 9.0 in
Weight	85.0 lb

Compatibility	
DC optimizer policy	Unsupported