Powerlily Sample Three-Phase Hybrid Inverter

PL-15000H3

A fictional 15 kW, 480 V three-phase hybrid inverter with a high-voltage DC battery port for the PL-30HVDC sample bank.



POWERLILY SAMPLE EQUIPMENT

Key specifications

Rated AC power	**15.0 kW**
Max PV input	**24.0 kW**
Battery range	**500-800 V**
Battery power	**15.0 kW**
MPPT operating range	**250-800 V**
Battery voltage range	**500-800 V DC**
Nominal AC voltage	**480 V**
Phases	**3**

High-voltage storage

Models a commercial hybrid topology using a dedicated 500-800 V DC battery interface.

Four PV MPPTs

One string per MPPT with 6 kW representative power limits.

No optimizers

The sample hybrid is intentionally configured without optimizer support.

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Powerlily Sample Three-Phase Hybrid Inverter

PL-15000H3 | SAMPLE DATA

Product details	
Model number	PL-15000H3
Description	Sample 480 V three-phase hybrid with a high-voltage DC battery port for PL-30HVDC. DC input current limits are per MPPT; no optimizers.
Inverter type	Hybrid
Limited warranty	12 years

PV input	
Maximum DC power	24,000 W
Maximum DC power per MPPT	6,000 W
Number of MPPTs	4
Strings per MPPT	1
Maximum input voltage	1,000 V
Minimum input voltage	200 V
MPPT operating range	250-800 V
Maximum input current per MPPT	16.0 A
Maximum short-circuit current per MPPT	20.0 A

Battery interface	
Maximum battery charge power	15.0 kW
Maximum battery discharge power	15.0 kW
Battery voltage range	500-800 V DC
Sample battery	Powerlily PL-30HVDC

AC output	
Rated AC power	15,000 W
Nominal AC voltage	480 V
Phases	3
Efficiency	97.0%

Mechanical data	
Dimensions (H x W x D)	32.0 in x 23.0 in x 10.0 in
Weight	110.0 lb

Compatibility	
DC optimizer policy	Unsupported