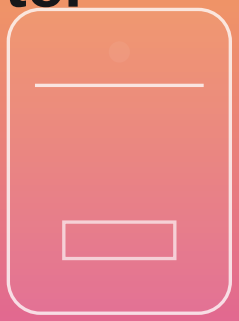
Powerlily Sample Hybrid Inverter

PL-7600H

A fictional 7.6 kW hybrid inverter for PV plus DC-coupled storage demonstrations, battery modeling, and electrical design workflows.



POWERLILY SAMPLE EQUIPMENT

Key specifications

Rated AC power	**7.6 kW**
MPPTs	**4**
Max PV input	**12.0 kW**
Max battery discharge	**7.6 kW**
MPPT operating range	**100-550 V**
Battery voltage range	**40.0-60.0 V DC**
Nominal AC voltage	**240 V**
Dimensions (H x W x D)	**26.0 in x 16.5 in x 8.0 in**

PV plus storage

Models a hybrid topology with PV MPPT inputs and a dedicated DC battery operating window.

Four independent MPPTs

Representative 3 kW-per-MPPT limits support varied roof orientations and string layouts.

Optimizer optional

The PL-600O sample optimizer may be used while the inverter continues tracking MPPT.

POWERLILY

Powerlily Sample Hybrid Inverter

PL-7600H | SAMPLE DATA

Product details	
Model number	PL-7600H
Description	Sample hybrid inverter for PV plus DC-coupled storage.
Inverter type	Hybrid
Limited warranty	12 years

PV input	
Maximum DC power	12,000 W
Maximum DC power per MPPT	3,000 W
Number of MPPTs	4
Strings per MPPT	1
Maximum input voltage (Voc)	600 V
Minimum input voltage	80 V
MPPT operating range	100-550 V
Maximum input current	16.0 A
Maximum short-circuit current	20.0 A

Battery interface	
Maximum battery charge power	5.0 kW
Maximum battery discharge power	7.6 kW
Battery voltage range	40.0-60.0 V DC

AC output	
Rated AC power	7,600 W
Nominal AC voltage	240 V
Efficiency	97.0%

Mechanical data	
Dimensions (H x W x D)	26.0 in x 16.5 in x 8.0 in
Weight	52.0 lb

Compatibility	
DC optimizer policy	Optional
Compatible sample optimizer	Powerlily PL-600O
Optimizer electrical behavior	Pass-through MPPT