



POWER-HOME

Solar Energy Storage Solution



DAYLIFF Power-Home is an intelligent integrated power supply system with a back-up facility. It includes a power module with inverter and a high-capacity lithium-iron phosphate battery pack and is compatible with either or both off-grid PV Solar or on-grid mains power supply all fitted in a compact IP66 enclosure suitable for indoor or outdoor installation. In hybrid PV/mains supply mode power input is principally provided from the PV source and during periods of non-PV output the system automatically switches to mains power supplemented by the battery which provides back-up in the event of mains failure. Conditioned pure sine wave output power is provided in every output mode that is suitable for small electronic equipment.

A modular battery storage arrangement is provided using standard 5kWh battery units that is simply expandable to provide 5, 10 and 15kWh capacity.

Systems are suitable for all residential and small-scale commercial applications and are the ideal solutions for reliable and consistent power supply that can take full advantage of PV energy and provides back-up power in the event of mains supply failure.

OPERATING CONDITIONS

Temperature Range: -15°C to +40°C

Noise Level: 60dB Max

Enclosure Class: IP66

TECHNICAL SPECIFICATIONS

MODEL	DPH50
Rated Power	5000W
Nominal Battery System Voltage	48V
Inverter Output (AC)	
Nominal AC Output Power	5000W
Peak Power	7500W, 10s(+/-0.2Hz)
Peak Nominal Output Voltage; Accuracy Range	230V±1%, 1-PH(max)
Output Frequency; Accuracy Range	50Hz±0.2%
Nominal Output Current	21.7A
Maximum Output Current	22.7A
Output Waveform	Pure Sine Wave
Total Harmonic Distortion (Linear Load)	<3%
PV Input (DC)	
Maximum Recommended DC Power	6000W
Nominal DC Operating Voltage	360V
Maximum DC Voltage	500V
MPPT Voltage Range	120V - 500V
Maximum Input Current	15A
No. of MPP Tracker	2

Battery	
Capacity	5kWh
Battery Parameter	51.2VDC 100AH
Number of Battery Pack	1/5kWh, 2/10kWh, 3/15kWh
Battery Life	6000 cycles@80% Depth of Discharge
Charging Curve	3-Stage Adaptive With Maintenance
Maximum Charging Power	5000W
Maximum Charging Current	100A
Efficiency	
Maximum Efficiency	25.6V
MPPT Efficiency	99.8%
Dimensions & Weights	
Inverter (L*W*H)(mm)	594x683x220
Net Weight (kg)	42
Single Battery (L*W*H)(mm)	594x420x220
Net Weight (kg)	52