

AquaVolt

AquaVolt offers a base capacity of 5.12 kWh, with continuous charge/discharge power of 2.5 kW / 3.6 kW (depending on model), and up to 4 kW peak output in off-grid mode. It provides transfer switching within 10 ms for seamless backup during power outages. The plug-and-play design allows easy installation and smooth integration with existing solar systems. Equipped with a built-in energy meter and compatible with Shelly smart meters, it enables real-time monitoring and optimization for maximum self-consumption.



Smart Energy Management

Zero energy waste with P1,
IR or smart meter



Easy Installation

Plug & play, DIY setup



Off-grid Power Output

3600W continuous output in off-grid
mode for emergency applications



AC-Coupled Design

Compatible with 99%
micro inverters



Cost Optimization

Smart Scheduling with
TOU & Dynamic Tariffs



Reliable Backup Power

UPS-level transfer within 10 ms,
8000+ cycles, IP65 protection rating

Model	D2.5LAC-5		D3.6LAC-5
BATTERY			
Battery Type	LiFePO ₄		
Nominal Energy (kWh)	5.12		
Nominal Capacity (Ah)	100		
Battery Voltage range (Vd.c.)	44.8-57.6		
Nominal Voltage (Vd.c.)	51.2		
Max. Battery Voltage (Vd.c.)	57.6		
Cycle Life*	≥8000		
Depth of Discharge (DOD)	95%		
OFF-GRID			
Nominal Output Voltage (Va.c.)	230		
Nominal Off-Grid Output Power (W)	2500	3600	
Max. Off-Grid Apparent Power (VA)**	3600	4000	
Nominal Output Frequency (Hz)	50/60		
Max. Efficiency (%)	94.9%		
Max. Power From Microinverter (W)	800		
Over-Voltage Protection	YES		
Short-Circuit Protection	YES		
Over-Temperature Protection	YES		
ON-GRID			
Nominal Output Power to Grid (W)	800	3600	
Nominal Apparent Power to Grid (VA)	800	3600 ***	
Max. Apparent Power to Grid (VA)	2500 ***	3600 ***	
Max. Power from Grid (Battery + Bypass) (W)	2500	4600	
Grid Connection	L / N / PE		
Nominal Output Frequency (Hz)	50/60		
Nominal Output Voltage (Va.c.)	230		
Power Factor	0.8 Leading ~ 0.8 Lagging (Adjustable)		
THDi (at Nominal Power)	<3%		
Nominal AC Current to Grid (Aa.c.)	3.5	15.7	
Max. AC Current to Grid (Aa.c.)	10.9	15.7	
BACKUP PERFORMANCE			
Grid-to-Off-Grid Transfer Time (ms)	≤10		
Off-Grid-to-Grid Transfer Time (ms)	≤10		
GENERAL DATA			
Dimensions (W×H×D, mm)	560×650×185		
Weight (kg)	65		
IP Rating	IP65		
Display	LCD / APP / Web		
Communication	Wi-Fi / Bluetooth / LAN / RS485		
Topology	High-Frequency Isolated Topology		
Noise (dB)	<35		
Operating Temperature Range (°C)	-20-55		
Relative Humidity (%)	0-95%		
Altitude (m)	≤3000		
Cooling Method	Natural Cooling		
Overvoltage Category	DC II, AC III		
Protective Class	Class I		
CERTIFICATIONS & STANDARDS			
Grid Regulation	EN 50549-1/10, VDE-AR-N4105		
Safety Regulation	IEC/EN62477-1, EN 18031-1, IEC/EN62619, UN38.3		
EMC	IEC/EN 61000-6-1/3, EN 301489-1/17, EN 300328, EN 62311		

* Test conditions: 0.2C charge/discharge at 25°C, 95% DoD, 70% EOL.

** D2.5LAC-5

Model D2.5LAC-5: Capable of long-term off-grid output up to 3.6 kW.

D3.6LAC-5

Model D3.6LAC-5: Capable of off-grid output up to 4 kW for 1 minute.

*** Higher output power available under specific configurations (subject to local regulations)

