

DYNESS

AquaVolt NEW

Plug-in AC-coupled Energy Storage Solution
5.12 kWh Capacity
800 W Plug-in / 2.5 or 3.6 kW Hardwired



Smart Scheduling with TOU & Dynamic Tariffs



3,600 W continuous output in off-grid mode for emergency applications



Seamless auto switching

$\leq 10\text{ms}$

Easy Installation Plug & play, DIY setup



AC-Coupled Design

Compatible with 99%
micro inverters



8,000+ Cycles,
IP65 Protection rating
-20°C Performance



Zero Energy Waste

with P1 Reader, IR Reader or Smart Meter



SPECIFICATION

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 ^[1]	≥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) ^[2]	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 ^[3]	
Max. Apparent Power to Grid (VA)	2500 ^[3]		3600 ^[3]	
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			

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

[2] 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.

[3] Higher output power available under specific configurations (subject to local regulations)

