

DYNESS

AquaVolt-LV NEW

Off-grid All-in-One ESS
5.12kWh Capacity



Power Wherever You Are

Selectable 110 V / 127 V / 220 V off-grid output modes



Up to 3.6 kVA off-grid output for backup loads



UPS-level fast switching
within 10 ms

<10ms

Up to 3.5 kW AC charging
power with fixed wiring



Wide Operating Temperature Range

IP65
protection rating



-20°C
Performance

Flexible Installation

Plug-in or fixed wiring connection for charging



SPECIFICATION

Model		D3.6LXC-5		
Off-grid Output Voltage Mode		110 V	127 V	220 V
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		
	Max. AC Charging Power (W)	1700	2000	3500
	Max. Battery Charging Current (Ad.c.)	35	40	70
	Max. Battery Discharging Current (Ad.c.)	45	55	90
Depth of Discharge (DOD) (%)		95%		
OFF-GRID	Nominal Off-Grid Output Voltage (Va.c., settable)	110	127	220
	Nominal Off-Grid Apparent Power (VA)	1700	2000	3600
	Max. Off-Grid Apparent Power (VA)**	2000@1min	2300@1min	4000@1min
	Nominal Output Frequency (Hz)	60		
	Max. Efficiency (%)	92.80%	93.00%	94.90%
	THDV	≤3%		
	Over-Voltage Protection	YES		
	Short-Circuit Protection	YES		
Over-Temperature Protection		YES		
AC INPUT	AC Input Connection Method**	Plug-in or fixed wiring		
	AC Input Wiring	L–N–PE	L–N–PE	L–N–PE or L–L–PE
	Nominal AC Input Frequency (Hz)	60		
	AC Input Voltage Range (Va.c.)	90–130	101–140	170–245
	Nominal AC Input Voltage (Va.c.)	110	127	220
	Input Power Factor	≥0.97		
	Nominal AC Input Apparent Power (VA)	1000	1150	2000
	Max. AC Input Apparent Power (VA)**	1700	2000	3500
	Nominal AC Input Current (Aa.c.)	9.1	9.1	9.1
Max. AC Input Current (Aa.c.)**		15.5	15.8	15.9
BACKUP PERFORMANCE	AC Input-to-Off-Grid Transfer Time (ms)	≤10		
	Off-Grid-to-AC Input Transfer Time (ms)	≤10		
GENERAL DATA	Dimension (W×H×D, mm)	560×650×185		
	Weight (kg)	67.5		
	IP Rating	IP65		
	Display	LCD Screen / APP / Web		
	Communication	Wi-Fi / Bluetooth / RS485		
	Topology	High-Frequency Isolated Topology		
	Noise (dB)	<35		
	Operating Temperature Range (°C)	–20–55		
	Charging Temp. Range (°C)	0–55		
	Discharging Temp. 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		

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

** The AC input power and current shall be limited by the rated current of the plug, socket, circuit, cable, terminal, and overcurrent protection device. The maximum AC input power/current is available only when the AC input circuit is properly rated. For fixed wiring connection, installation must be performed by a qualified electrician in accordance with local electrical codes.

Note: L–L–PE means line-to-line supply with protective earth. The actual wiring method depends on the local supply system."

