

ArborValve AC



Dual DC valve control



Latching & non-latching solenoids



~6.5–24 VDC adjustable drive



Long-range field radio · up to 2 km



Bluetooth setup & diagnostics



GNSS positioning



Solar + LiFePO4 autonomy



IP67 enclosure

AC valve automation for powered irrigation sites — supply low-voltage AC solenoids from the node's own battery energy path (12–24 VAC at up to 1 A), or switch higher-voltage valve banks from an external supply (up to 250 VAC / 10 A), on the same long-range farm network as ArborValve DC.



Battery-backed 12–24 VAC where it fits

Internal conversion from the node's battery / power system delivers 12–24 VAC @ 1 A for AC valves in that class — useful at sites where you want wireless AC control without bringing mains to every low-voltage solenoid.

External supply for higher-voltage banks

When valves need more than the onboard AC path, wire an external supply. Relay-based switching handles up to 250 VAC / 10 A, so powered headers, filter stations, and legacy AC manifolds stay in the same wireless schedule language.

One farm. Two power environments.

Use ArborValve AC on powered AC infrastructure and ArborValve DC on remote solar laterals — one LPWAN network, one A.I.M dashboard, one schedule language.

Specifications

General

Spec	Value
Product name	ArborValve AC
Product code	AM-VA1
Role	AC valve control node · powered-site field actuator + local sensing
Category	Farm Operations Platform
Suggested price	Inquire

Power & energy

Spec	Value
Primary for powered banks	Site / plug-in AC where infrastructure already exists
Where fitted	Solar charge path + 4S LiFePO4 6500 mAh
Onboard valve AC generation	12–24 VAC @ 1 A from internal battery-backed supply
External valve path	Customer-supplied AC · switched by onboard relays ($\leq$ 250 VAC / 10 A)

Valve control (key differentiator)

Spec	Value
Onboard AC supply (from battery energy system)	12–24 VAC @ 1 A for compatible low-voltage AC valves
External AC supply switching	Relay-based · up to 250 VAC · 10 A
Architecture	Dual local valve channels (standard); expanded AC / AC-latching layouts supported by the family
Control modes	Latch / non-latch selection via command packet
Installation class	Low-voltage onboard path · high-voltage external path (mains-class sites)