



# HUMLESS UNIVERSAL

## Universal Energy Management

### WHO WE ARE

Humless Universal Energy Management (UEM) breaks new ground for intelligent energy management and storage. The Humless Universal connects the widest range of manufacturer components into a smart energy system for home or business.

For the first time, installers can connect any brand of panels, inverters, and batteries into one seamless, scalable 48V system. Humless UEM applies commercial mini-grid AI for the residential market, as well as for Rule 21 compliant commercial systems for the most cost-effective flow of electricity – on or off-grid.

The Humless Universal is one of the most advanced intelligent Energy Storage System (ESS) available on the market today. Some of our standard features include:



- AC and DC Couple simultaneously, from PV  
*(Up to 4 power sources)*
- Can run any PV inverter in off-grid mode  
*(Universal Retrofit)*
- Keep solar panels operational even when the grid fails
- Can integrate with all 48V battery types
- Stack Inverters in single and 3 phase applications
- Unlimited open loop battery storage  
*(Only limited by charging ability)*
- On and Off-Grid capable
- Peak/Demand load shaving *(Offset higher demand peak charges)*
- Net metering *(Sell power back to the grid)*
- Arbitrage *(Buy power at a low rate then sell it back at a higher rate)*
- Charge block programmable settings
- Multiple programmable outputs
- Generator control
- EV car charging compatible
- BACnet compatible *(Automation system protocol)*