

# HYDRO



BATTERY TECHNOLOGY COMPARISON

The Ultimate Generation of  
Microgrid Systems



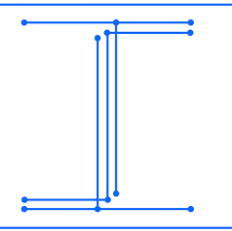
**GENESIS**  
*POWER TEK*

A HydroESS Battery can provide you an entire day of autonomy for your HOME

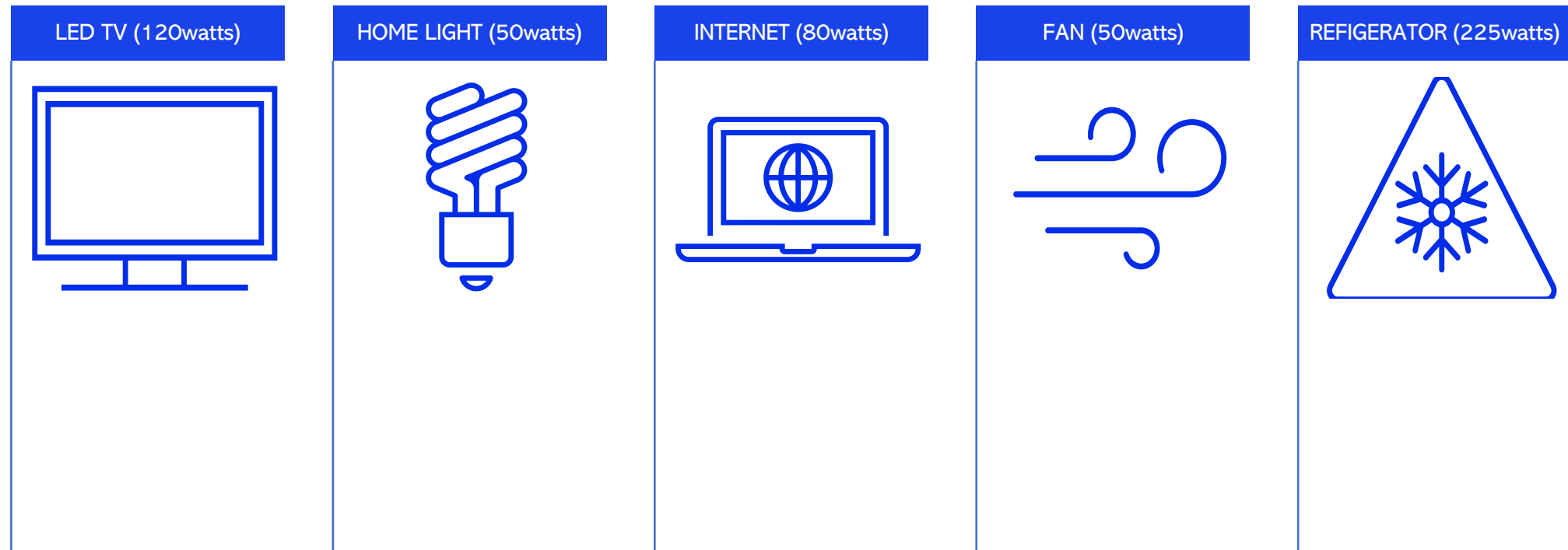
UP TO  
24  
HOURS

HYDRO

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# WHAT DO I NEED? HOW MUCH MY HOUSE LOAD CONSUMES?



Examples of common household electricity consumption

**HYDROESS** can give you up to 24 hours of autonomy with just 1 battery module plus a photovoltaic system integration



# POWERHOME

- 1 to 16 applicable modules for each GENESIS HYBRID INVERTER
- Wide range temperature: -30C~60C
- 1-hour quick charge with any power generation source
- Iron Phosphate solid state battery type
- Up to 20-year warranty
- No 20-year contract required

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# ADVANCED FEATURES

# WET-CELL BATTERIES



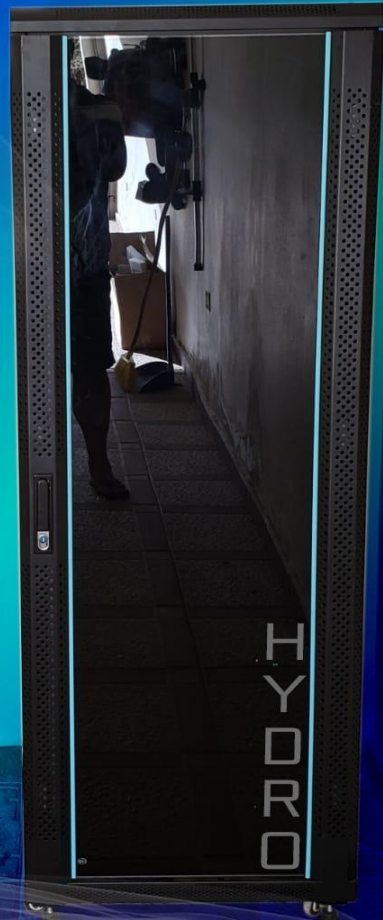
VS

# HYDRO





# HYDRO

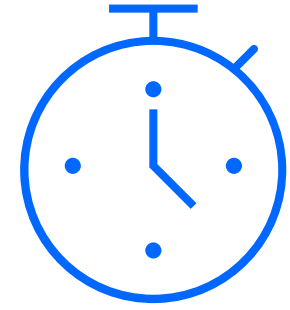


# VS

# TRADITIONAL BATTERIES (LEAD-ACID)

- ✓ NO GAS
- ✓ NO WATER
- ✓ NO MAINTENANCE
- ✓ NO EXPLOSIONS
- ✓ NO 50% CAPACITY RESERVE





**1/3<sup>RD</sup> TIMES**  
Smaller & Lighter

**5-MINUTE**  
Installation time

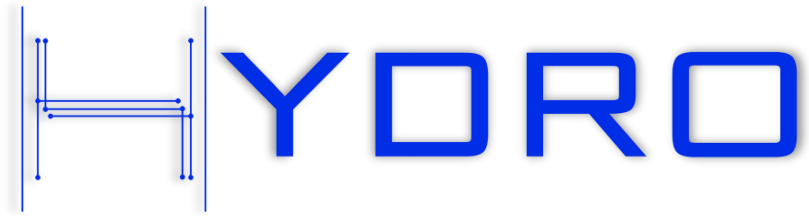
Easy plug-n-play installation. One person needed to install the **HydroESS** system.



## EFFICIENCY



- The integrated smart computer will balance the status of the internal battery unit, ensuring excellent ambient working atmosphere.
- 96% Battery round-trip efficiency
- 100% Discharge depth



## RAPID CHARGE (1HR)

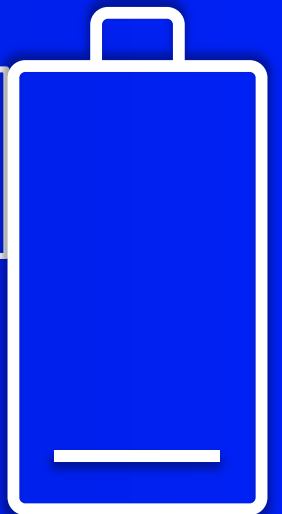
- 100% charge in 1 hour or less
- Use batteries while charging to extend use from 12 to 24 more hours.
- Fast charge does not reduce battery life



## OTHER MARKET ENERGY SYSTEMS

## LONGER CHARGE TIME (10-20H)

- Older technology battery types require from 10 to 20 hours to charge 100%
- Fast charge reduces battery life





## SECURITY



- ❖ Environment friendly
- ❖ Non-toxic Iron Phosphate
- ❖ No Cobalt — no hazards
- ❖ No fire risk (Tesla, Generac & LG Chem)
- ❖ No overheating risks
- ❖ No fumes or out-gassing
- ❖ No lifespan loss due to heating (vs 50%)

LITHIUM & WET  
BATTERIES





LONG DURABILITY

HIGH RELIABILITY



- ✓ HARD ENVIROMENT TEMPERATURE TEST
- ✓ AGING TEST
- ✓ DISCHARGE DEPTH TEST



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**COST-EFFICIENCY**

**V**  
**S**

**INEFFICIENT PRICING**



Year	Batteries	Cost per battery	Annual replacement	Every 3-year replacement	HydroESS 1 time investment
1	4	\$350	\$1400	\$1400	
2	4	\$350	\$1400		
3	4	\$350	\$1400		
4	4	\$350	\$1400	\$1400	
5	4	\$350	\$1400		
6	4	\$350	\$1400		
7	4	\$350	\$1400	\$1400	
8	4	\$350	\$1400		
9	4	\$350	\$1400		
10	4	\$350	\$1400	\$1400	
11	4	\$350	\$1400		
12	4	\$350	\$1400		
13	4	\$350	\$1400	\$1400	
14	4	\$350	\$1400		
15	4	\$350	\$1400		
			\$42,000	\$14,000	\$6,000



# EFFICIENT & AFFORDABLE



- ✓ 40 kWh
- ✓ 32 kW usable after losses
- ✓ No additional inverter needed
- ✓ Multi micro-grid adaptations
- ✓ 10 / 20-year warranty
- ✓ \$27,000+\$0 recycling cost

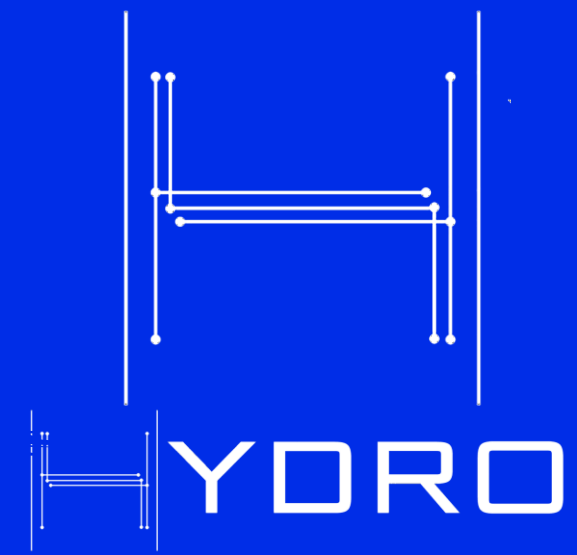


- ✗ 40.5 kWh
- ✗ 20 kW usable after losses
- ✗ Additional inverter required
- ✗ No micro-grid adaptations allowed
- ✗ 10-year warranty
- ✗ \$36,000+\$6,000 recycling cost

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THANK YOU!