



phonestor 

Thermal Storage Solutions



OUR MISSION

PhaseStor, with over 35 years of unwavering dedication, has been at the forefront of thermal energy storage technologies. Our commitment to a sustainable future extends beyond innovation—it's woven into the very fabric of our existence. Through rigorous research, cutting-edge solutions, and collaborative partnerships, we've empowered communities and industries alike to embrace energy efficiency and environmental stewardship.

Join us in this transformative journey as we continue to shape a brighter, more sustainable tomorrow for our community and the globe.

Together, we're not just storing energy; we're storing hope.





Net-Zero eco friendly
manufacturing



100% non-toxic &
biodegradable



Thermal management
industry leader

HARNESS THE HEAT - POWER THE WORLD

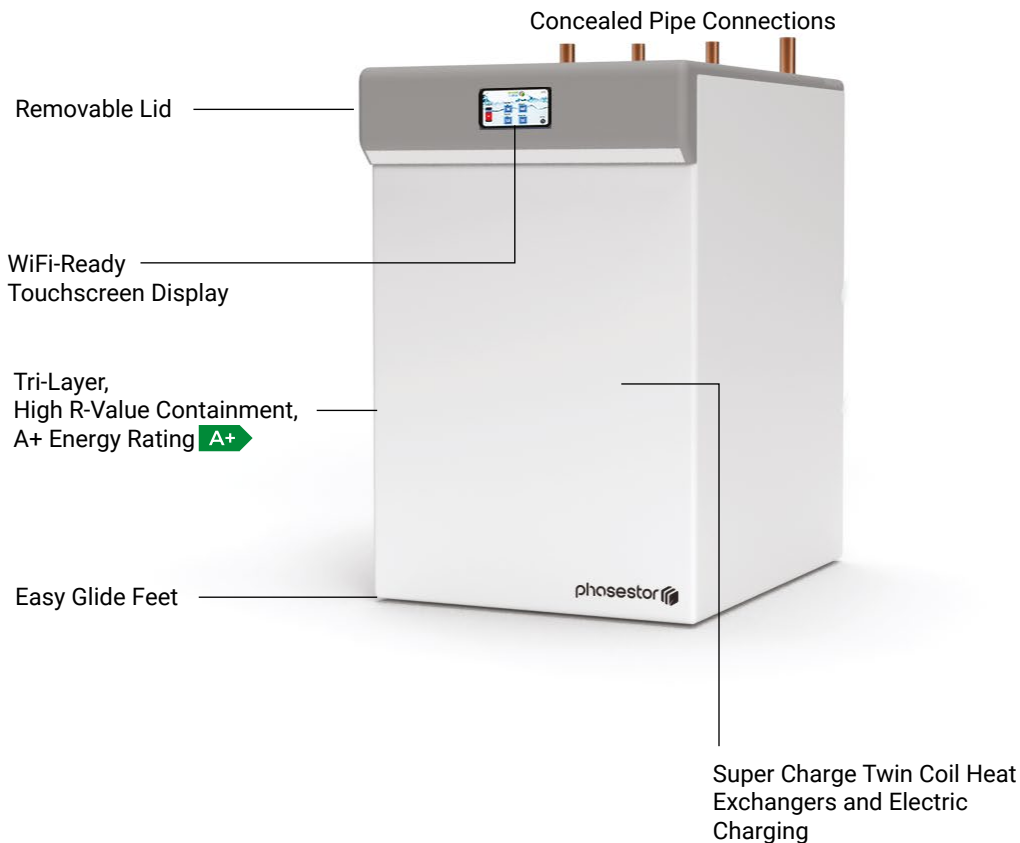
At PhaseStor, we envision a future where thermal energy management is efficient, sustainable, and accessible to all. Our cutting-edge PhaseStor Thermal Storage Batteries empower industries, communities, and individuals to harness the power of thermal energy like never before.

By unlocking this potential, we're shaping a brighter, more sustainable tomorrow—one where energy efficiency and environmental stewardship go hand in hand.

Join us on this transformative journey as we redefine how the world manages and utilizes thermal energy."

eSTOR™

THE WORLDS MOST ADVANCED THERMAL ENERGY BATTERY



FLEXIBLE

Compatible with ANY Heating or Energy Source including Low-temp Air Source Heat Pumps

UNIVERSAL

Direct & Indirect system application as standard

SIMPLE

One model – Available in 3 Sizes. 6 -10 & 12 kW

COST EFFECTIVE

High Performance - Energy Efficient – A+ Energy Rating

SPACE SAVING

Compact design – Single footprint over half the size of equivalent cylinders

FIT & FORGET

Easy to Install - No legionella risk or mandatory annual maintenance.

CONVENTIONAL HOT WATER STORAGE VS eSTOR™ THERMAL STORAGE

WHY eSTOR™?

FEATURES

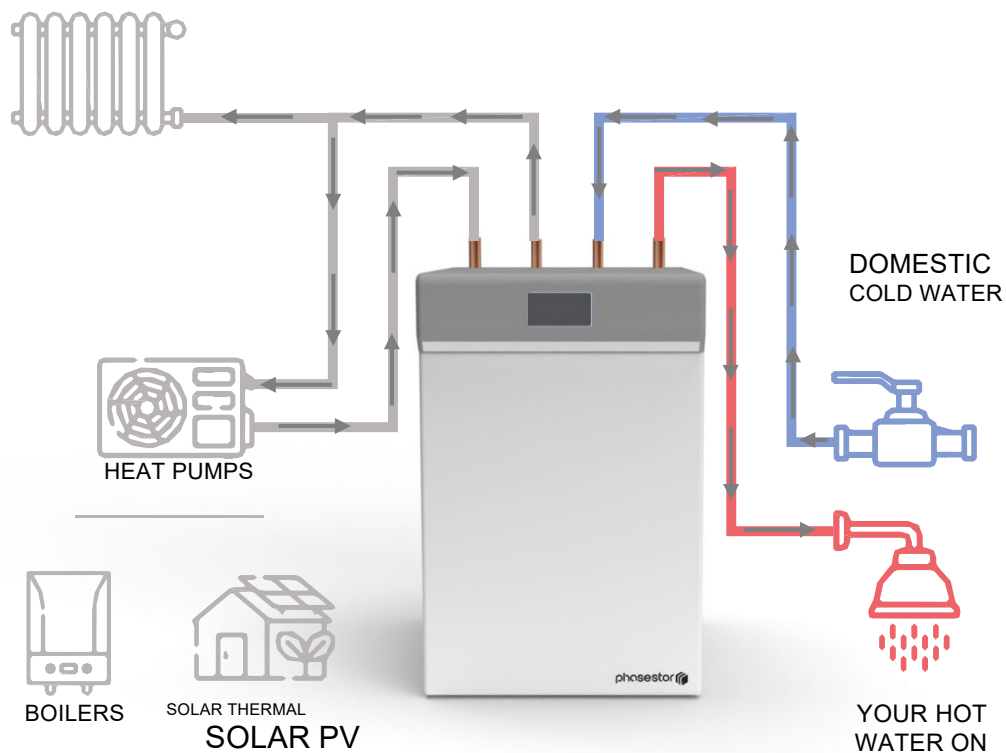
- Compact design: Space Saving
- Compatible with High & Low temp heat pumps
- Electric / Solar PV ready
- Direct & Indirect models
- Sizes: 6kW - 10kW - 12kW
- Residential / Commercial / Industrial use
- Space heat buffering
- Mains pressure hot water delivery
- Twin wall insulation / Tri-layer Insulated Casing
- Removable lid for easy connections
- Easy to install: Minimal pipework and electrical needed
- Easy Glide feet included
- Future-proof for any energy source



BENEFITS

- 15 Year Warranty
- A+ Energy Rating
- Ultra Efficient: 50% lower heat loss
- No G3 Requirements
- No Legionella or high-temp cycling needed
- No mandatory annual servicing
- Rapid reheating
- Efficient heat use
- Eliminates need for Buffer tanks
- Supports Time of Use Tariffs
- Grid balancing & Peak demand management
- Patented high latent heat tech: 4x energy storage

HOW DOES eSTOR™ WORK?



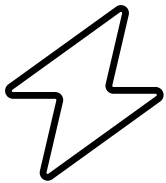
MAINS ELECTRIC

COMPACT DESIGN



FLEXIBILITY

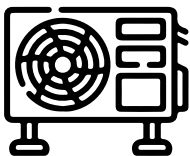
Our eSTOR™ thermal batteries are Compatible with any heat or power source.



MAINS
ELECTRIC



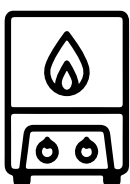
SOLAR THERMAL
SOLAR PV



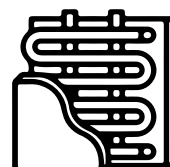
LOW & HIGH TEMP AIR
SOURCE HEAT PUMPS



GROUND SOURCE
HEAT PUMPS



ELECTRIC, GAS, OIL
OR HYDROGEN BOILERS



HYDRONIC
HEAT & COOLING



Product Code	Thermal Storage Capacity			Dimensions (mm)				Pipe Sizing (mm)			Connection Size	
	kWh @ 65°C	V40 (Ltrs @ 55°C)	V40 (Ltrs @ 65°C)	Width	Depth	Height	Weight Kg	Heating	Domestic Cold Water	Domestic Hot Water	Heating	Hot & Cold Water
eS6-HW-U	6	90	109	455	595	595	103	28	22	22	1" BSP	3/4" BSP
eS10-HW-U	10	185	218	455	595	910	154	28	22	22	1" BSP	3/4" BSP
eS12-HW-U	12	285	302	455	595	1200	192	28	22	22	1" BSP	3/4" BSP

Product Code	Connected Electrical Load @ 230V - 50hz (W)	Power Supply	Working Pressures (Bar)		Recommended Flow Rate (Ltrs)		Hot Water Temperature Range	Heat Source Flow Temp °C		Heat Loss Rate kWh/24	Energy Efficiency Rating
			Min	Max	Min	Max		Min	Max		
eS6-HW-U	2800	1PH / 230V	1.5	10	2	10	45-60	55	80	0.65	A+
eS10-HW-U	2800	1PH / 230V	1.5	10	2	15	45-60	55	80	0.74	A+
eS12-HW-U	2800	1PH / 230V	1.5	10	2	20	45-60	55	80	0.83	A+

Product Code	Application	Compatibility (Primary Heat / Energy Source)									
		Boiler	Low Temp ASHP	High Temp ASHP	GSHP	Solar PV	Solar Thermal	Mains Electric	Off Peak Tariff Capability	Emergency Electric Back Up	Smart / Wi-Fi Enabled
eS6-HW-U	Hot Water	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
eS10-HW-U	Hot Water	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
eS12-HW-U	Hot Water	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y






GRID BALANCING

Energy density and retention are key for supporting the national grid, enabling utility providers to shift loads and plan usage optimally. High-density energy storage allows for load shifting to off-peak times, reducing strain during peak demand. This enhances grid stability, promotes cost-effective distribution, and facilitates long-term planning for future demand fluctuations. In summary, energy density and retention are vital for grid efficiency and resilience.

COST EFFECTIVE

eSTOR™'s exceptional energy density and retention assists the national grid and utility providers with a load shifting option for optimal time of use planning. Giving home-owners the ability to store thermal energy during off peak hours saves money, supports a more stable grid and maintains comfort.

- Reliable Heating 
- Faster Heating 
- Smarter Heating 

Thermal batteries can store & save energy in many forms...Discover our other solutions



IceStor®

IceStor® is a time-tested thermal storage technology that strategically reduces cooling load demand. Easily integrated into new or existing systems of any size. Installing IceStor® would generate immediate savings and shields against rising energy costs.

TRUe Portable

TRUe portable units are designed to cater to a wide range of applications in the logistics industry, cold storage facilities, and industrial settings. Whether it's heating or cooling, this reliable unit ensures optimal temperature control wherever it's needed.



Cold Chain Logistics

We have the capabilities of managing the cold chain from start to finish. A complete Last-Mile approach, with sustainability at the forefront.

eSTOR™ Mod

The eSTOR™ Mod harnesses thermal energy efficiently, offering versatile applications such as cooling or heating buildings, and improving manufacturing processes.





LET'S CONNECT



SHAPING A GREENER TOMORROW

Our cutting-edge technology revolutionizes energy storage, offering unparalleled efficiency and reliability. With eStor™, you can optimize your energy usage, reduce costs, and contribute to a sustainable future.

Connect with us to learn more about how eStor™ can transform your energy needs. Join the energy revolution with eStor™ today.



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DISTRIBUTOR

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