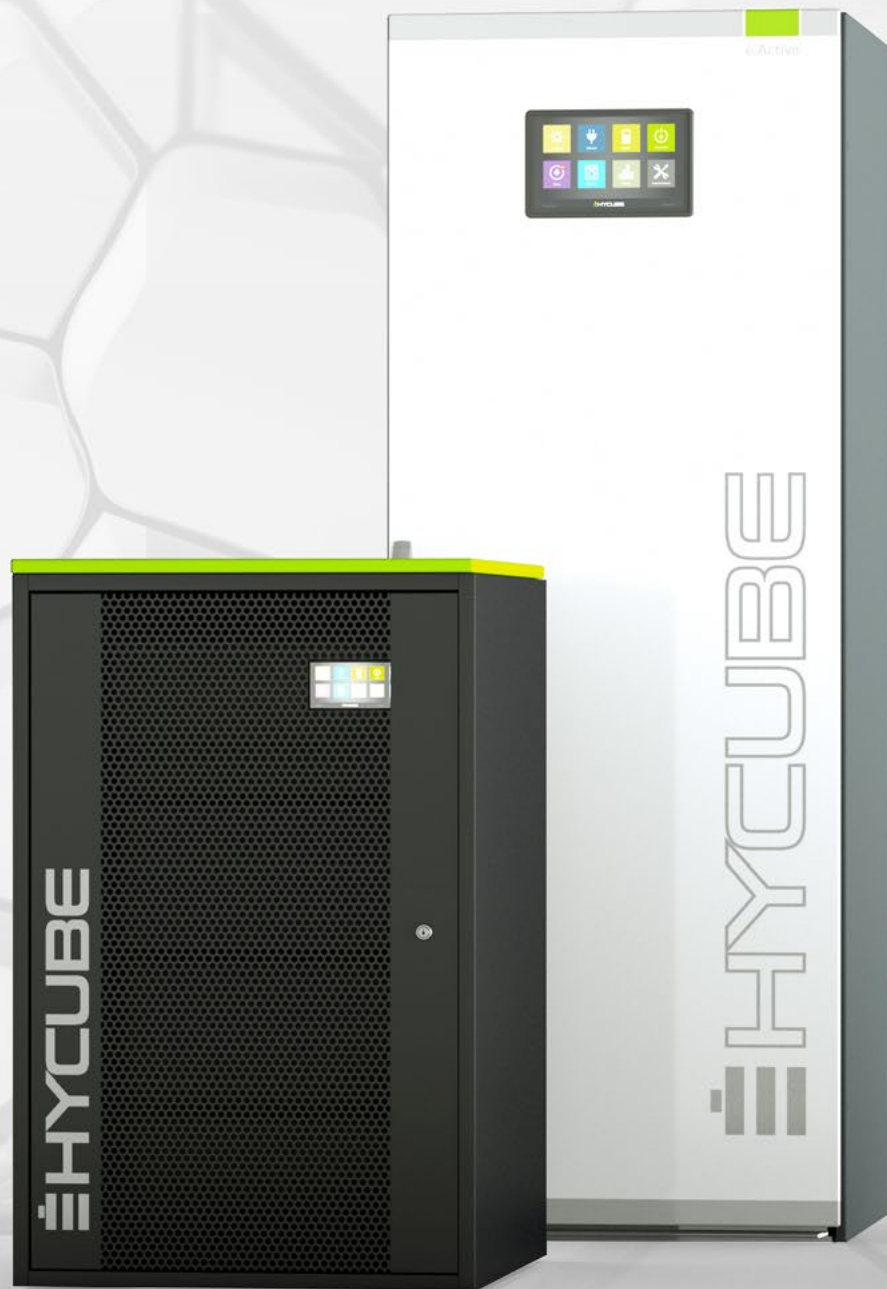


THE SMART HYBRID STORAGE SYSTEM FOR MORE AUTONOMY



STRONG PERFORMANCE FOR YOUR INDEPENDENCE

The concept is easy: With the HYCUBE premium e.storage system you can use the solar energy gained during the day from your own PV system and in the long-run cover more than 70 % of your annual electricity requirement.

The difference is in the detail: The innovative HYCUBE hybrid system is optimized for maximum performance and combines intelligent energy management with advanced storage technology. One of the key features is the built-in DC/AC system with powerful lithium-ion batteries. And we go one step further into the future: Renewable energies cover much more than just solar power, therefore HYCUBE

e.Active is operable with energy from heat pumps, wind turbines and is enabled for the micro grids of the future where you'll be able to sell and buy your excess power requirements from local services. In short: This energy storage system includes everything a visionary complete solution needs. Your route to independence from expensive power.

SYSTEM e.Active



SPACE FOR MORE POWER

Whether your family's electricity needs are growing or you want to reduce your dependency on energy suppliers. HYCUBE e.Active can be upgraded with extra batteries if you need them – it's ready to provide you with optimum power based on your changing electricity requirements.

Our energy storage system takes advantage of the powerful lithium-ion technology. Their durable, provide extremely high storage capacity, and lightweight making these batteries a true space saver.

Are you wondering how much of your household's needs can be met by storing and using electricity you produce yourself? It depends on your solar PV system and energy storage device based on the load profile of your household – consult your solar technician for more details.



COMPLETE SOLUTION

ONE SYSTEM –
ALL YOU NEED

The HYCUBE premium e.storage system stands alone and measures just 60x60 cm. Designed as a smart complete solution, the system includes everything you need in an energy storage system.



PERFORMANCE

FULL POWER –
WHENEVER YOU NEED IT

An extremely powerful charger with 150 amps was developed for the highly efficient lithium-ion batteries. This means you have maximum charging and discharging with a capacity of up to 7.2 kW.



SYSTEM e.Compact



MAXIMUM POWER FOR SMALLER SPACES

With the HYCUBE e.Compact, we have added a new hybrid energy storage system to our HYCUBE premium e.storage range and thus combined maximum performance and intelligent energy management with space-saving design and style. Like its “big brother” the HYCUBE e.Active, the HYCUBE e.Compact combines all elements of a high-tech energy storage system, completely preinstalled in just 60x60x100 cm for compact power – thanks to its plug and play set up, it can easily connected to any solar PV system.

Developed as a hybrid energy storage system, the HYCUBE e.Compact not only incorporates all the high-quality properties of the HYCUBE family as standard, it is also a small

space-saving wonder that boasts a height of just one meter, stylish design and an extremely competitive price. In addition to inverters and the smart energy management system “CubeConnect”, the HYCUBE e.Compact impresses with highly-efficient latest-generation lithium-ion-batteries. With a 150 amps power charger, these ensure a maximum charging and discharging capacity of 7.2 KW.

Equipped with the Smart Home technology from iHaus and controllable via an intuitive 5-inch touch color display, the e.Compact provides full control over consumption and costs – around the clock and from any location if you use the HYCUBE app.



INSTALLATION

FAST CONSTRUCTION – READY TO GO

The assembly of HYCUBE premium e.storage system is smooth from the very beginning. Installation by experts means you have no stress and very little effort.



MONITORING

INTELLIGENT SELF-CONTROL – INTUITIVE OPERATION

With the energy manager, the Cube Connect software and the HYCUBE online portal and app you can take full control 24/7.



SAFETY

TOP QUALITY

The built-in HYCUBE premium e.storage battery management system ensures the highest level of safety.

TECHNICAL DATA

	HYCUBE e.Compact		HYCUBE e.Active				
TYPE	S	M	S	M	L	XL	XXL
Recommended for annual consumption	3.000 kWh	4.000 kWh	3.000 kWh	4.000 kWh	5.000 kWh	6.000 kWh	≥ 7.000 kWh
BATTERY MANAGER							
Max. charging power	2.400 W	3.600 W	2.400 W	3.600 W	4.800 W	4.800 W	4.800 W
Max. discharging power	4.680 W	6.480 W	4.680 W	6.480 W	7.200 W	7.200 W	7.200 W
Technology	Lithium-iron-phosphate		Lithium-iron-phosphate				
Capacity max./usable	4,8 / 3,89 kWh	7,2 / 5,76 kWh	4,8 / 3,89 kWh	7,2 / 5,76 kWh	9,6 / 7,68 kWh	12 / 9,6 kWh	14,4 / 11,52 kWh
Number of batteries / max	2 / 3	3 / 3	2 / 6	3 / 6	4 / 6	5 / 6	6 / 6
Rated voltage	48 V		48 V				
Guaranteed cycles with HYCUBE smart charging	6.000		6.000				
AC OUTPUT							
Rated power	4.600 W		4.600 W				
Rated current	20 A		20 A				
Max. AC current	22,1 A		22,1 A				
Grid output voltage	230 V		230 V				
Feed in phases	1		1				
Grid frequency	50 Hz		50 Hz				
Power factor (rated power)	1		1				
Power factor (cos...phi) (ind...kap)	0,9...0,9		0,9...0,9				
Max. efficiency	97,60 %		97,60 %				
AC charging	✓ – hybrid system		✓ – hybrid system				
EMERGENCY POWER (AC)							
EPS – Power on time	4 – 5 s		4 – 5 s				
Continuous output	3.120 VA	4.000 VA	3.120 VA	4.000 VA	4.000 VA	4.000 VA	4.000 VA
Peak output	4.680 VA	6.000 VA	4.680 VA	6.000 VA	6.000 VA	6.000 VA	6.000 VA
Phases	1		1				
EPS – Changeover relay (single phase)	integrated, single phase, all-pole		integrated, single phase, all-pole				
Stocket with EPS function	✓ – 230 V / 16 A		✓ – 230 V / 16 A				
INPUT SOLAR							
Max. DC power	5.000 W		5.000 W				
Max. DC voltage	550 V		550 V				
MPPT voltage range	130 ... 530 V		130 ... 530 V				
Max. input current	12 / 12 A		12 / 12 A				
Number of MPP trackers	2		2				
MPPT efficiency	99,9 %		99,9 %				
DC switch (modules)	integrated		integrated				
DISPLAY							
Touchscreen	Large 5" colour-screen-touch-display		Large 7" colour-screen-touch-display				
Communication interfaces	1x Ethernet		1x Ethernet				
PERIPHERY							
Dimensions (W/H/D) mm	914 mm x 600 mm x 600 mm		1.600 mm x 600 mm x 600 mm				
Operating temperature range °C	0 °C - + 40 °C		0 °C - + 40 °C				
Altitude	< 2.000 m		< 2.000 m				
Cooling concept	Fan		Fan				
Noise emission (typical) db	< 40 db		< 40 db				
Humidity %	0 ~ 90 % (non-condensing)		0 ~ 90 % (non-condensing)				
Weight	128 / 78 kg	153 / 78 kg	176 / 126 kg	201 / 126 kg	226 / 126 kg	251 / 126 kg	276 / 126 kg
TESTS / CERTIFICATES							
Certificates	VDE-AR-N 4105, UN3480, CE; IEC21A/556/CD; G59/3		VDE-AR-N 4105, UN3480, CE; IEC21A/556/CD; G59/3				
	VDE 2510-2 and security guide LiO (BSW); ÖVE/ÖNORME 8001, CEI 0-21		VDE 2510-2 and security guide LiO (BSW); ÖVE/ÖNORME 8001, CEI 0-21				
ADDITIONAL FUNCTIONS							
Three phase compensation	✓ – Energy meter (65 A/ Phase), converter on request		✓ – Energy meter (65 A/ Phase), converter on request				
Remote maintenance	✓		✓				
PV monitoring	✓		✓				
Energy Manager	✓		✓				

Status: 06/2016