

ENERGY STORAGE SYSTEM

for Home

SAMSUNG SDI provides the energy storage system
which fits to your demand



The Smart Energy Solution

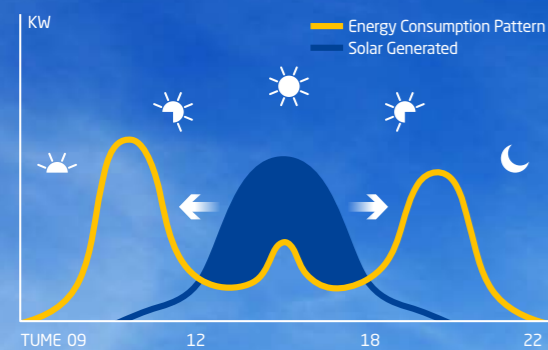
It's time to use Samsung SDI All-in-One

Do you use solar energy only during the day time? Do you sell back your remaining solar energy? If you use an Energy Storage System (ESS), you can use clean energy anytime. Given the decrease of electricity selling price and the increase of its buying price, self-consumption of solar energy generated at home is a smart way to save energy cost. Come experience the eco-friendly ESS of Samsung SDI, which offers PV's best friend helping self-consumption of energy at home.

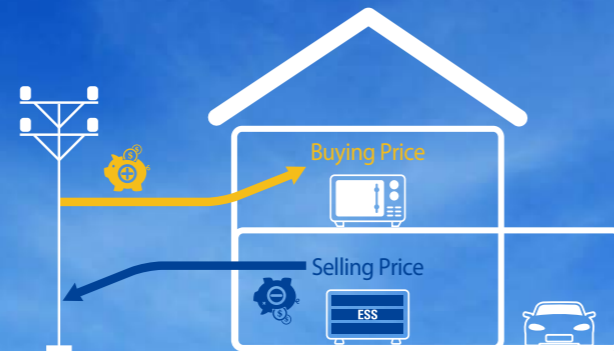
Increased Energy Self-Consumption ↑
Decreased Electricity Cost ↓



Energy Consumption Pattern



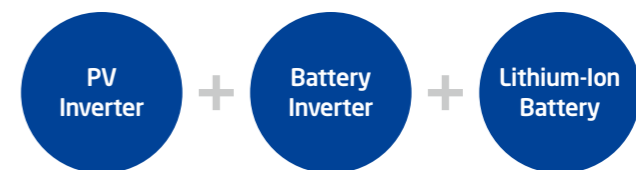
Electric Price Trend



The Best "All-in-One" Solution

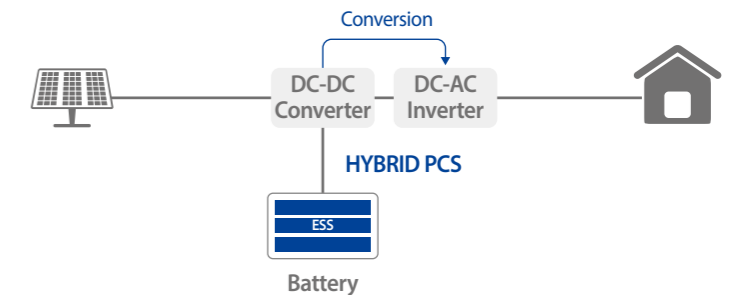
3 Functions in one enclosure. Samsung SDI's All-in-One solution enhances energy efficiency through a simple DC system and offers the convenience of compact design and easy installation. The DC system only has to convert electricity once from PV panels on the rooftop before its use for home appliances, thereby increasing energy efficiency. The compact design lets it fit in any garage, kitchen or even living room so you can experience the Samsung difference!

[All-in-One Solution]

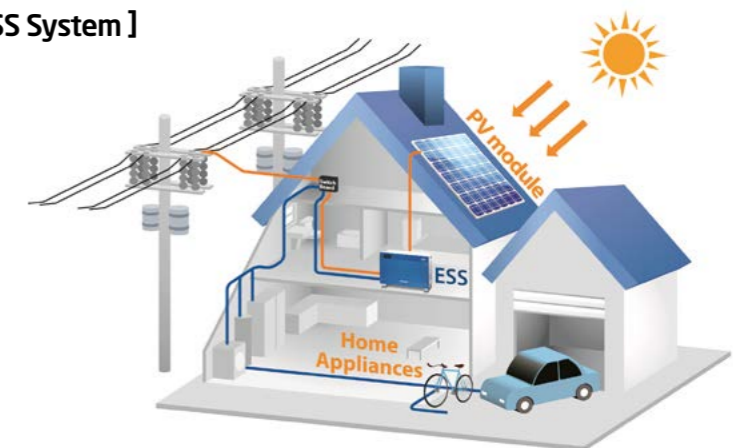


- Simple DC system for high efficiency
- Compact size with highest energy density
- Cozy design for home appliance
- Easy installation and transportation

[Only one time conversion system]



[ESS System]



Experiences

Samsung SDI All-in-One

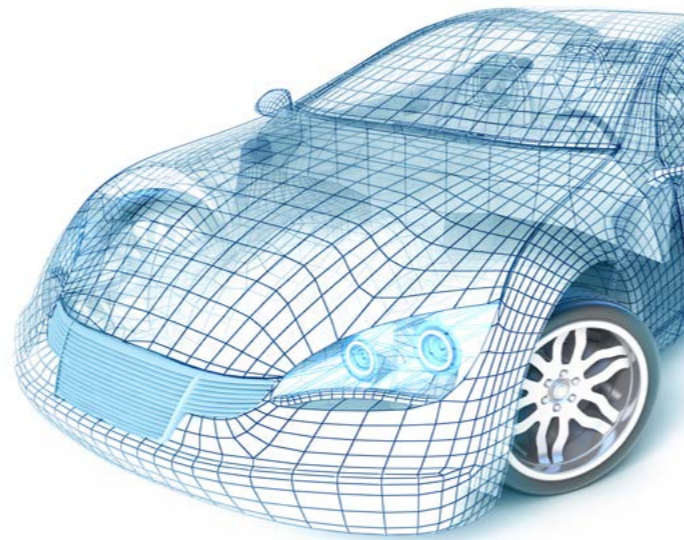
ESS made by a manufacturer that specializes in lithium batteries Web monitoring and services for enhanced user convenience

Samsung SDI's ESS is based on world best lithium-ion cells applied in cutting edge IT devices and automotives. Samsung SDI batteries adhere to the same strict quality assurance standards demanded of global premium automotive companies and large scale utilities. You can safely use ESS in the long term with these reliable batteries.

In addition, its web monitoring system enables easy checking of ESS operation, such as the amount of PV generation, battery usage as well as battery's charging and discharging status. The web-monitoring is connected to a local service center to provide error detection in advance and remote control.

[Advanced cell technology]

- Premium quality with long life cycle
- World's safest battery with zero-recall
- Adopted by global automotives and utilities.



[Maintenance service]

- Web-monitoring to check energy flow and battery status
- Pro-active service for error detection in advance and remote control
- Long-term warranty program



Optimized capacity and PCS* for your families

All-in-One Family Series

Since each family has PV panels with different size and consumes different amount of electricity, ESS(Energy storage system) has to be optimized for each family. Samsung SDI provides ESS customized for the needs of each family with its All-in-One series. Your scope of selection is expanded from AIO 3 to single-phase AIO 5 and three-phase AIO 8. The Samsung SDI ESS is truly optimized for your families.



*PCS: Power Conversion System



Single Phase

AIO Series 3_ Capacity 3,6 kWh

AIO Series 5_ Capacity 5,5 kWh

Following the launch of the first AIO series 3, AIO series 5 is here to offer 50% higher battery capacity, while retaining the compactness. Samsung SDI has improved battery technology and added a DC disconnection switch and a plug-type AC connector for convenient installation. Now, you can select customized ESS to meet your home energy usage needs.



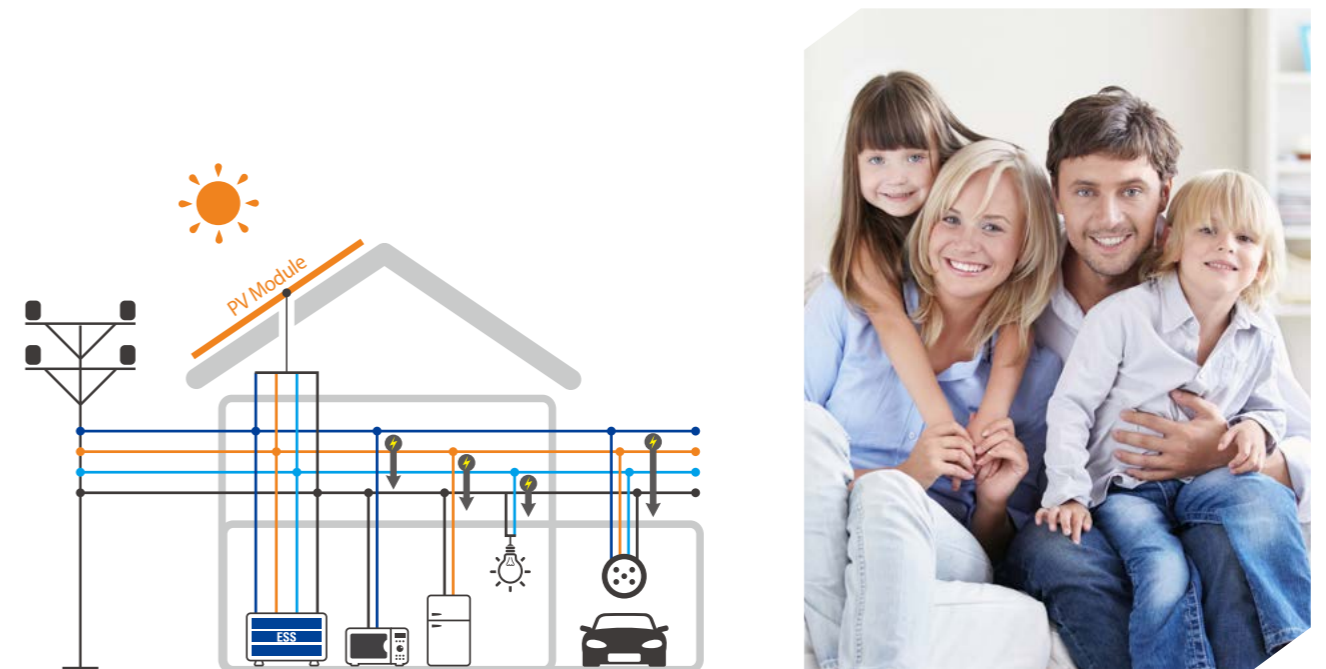
Specification

Items		Spec.	
		3,6kWh	5,5kWh
DC Input (PV)	Max Power	6,6 kWp	6,6 kWp
	Max Voltage	550V	550V
	No. of independent MPPT	2	2
	No. of strings	2	2
AC Output	Power	4,6kVA(DE,IT) 3,68/4,6kVA (UK,Configurable)	4,6kVA(DE)
	Nominal Voltage	230V, 50Hz	230V, 50Hz
	Connection Phase	1	1
Efficiency	EU Efficiency (Inverter)	95%	95%
	Power	2 kW	2 kW
Lithium-ion battery	Nominal Capacity	3,6 kWh	5,5 kWh
	Usable Capacity	3,24 kWh	5,0 kWh
Product	Dimension	1.000 × 267 × 680mm	

Three Phase

AIO Series 8_ Capacity 8,0 kWh

AIO series 8 is a three-phase product customized for German families with a large capacity up to 8.0kWh. It enables the use of PV energy connected to all home appliances. This series completes true eco-friendly solar energy use, making it the perfect product for large families that consume lots of electricity. The series boasts of the highest energy density, realizing even more compact size.



Specification

Items		Spec.	
		8,0kWh	
DC Input (PV)	Max Power	10 kWp	
	Max Voltage	1000V	
	No. of independent MPPT	2	
	No. of strings	4 (2 + 2)	
AC Output	Power	8kVA(DE)	
	Nominal Voltage	230V, 50Hz	
	Connection Phase	3	
Efficiency	EU Efficiency (Inverter)	96~97% (TBD)	
	Power	3 kW	
Lithium-ion battery	Nominal Capacity	8,0 kWh	
	Usable Capacity	7,2 kWh	
Product	Dimension	1.070 × 260 × 880mm	



SAMSUNG SDI CO., LTD.

150-20 Gongse-ro, Giheung-gu,
Yongin-si, Gyeonggi-do, 446-577, Südkorea
energy.storage@samsung.com
www.samsungsdi.com

SAMSUNG SDI Europe GmbH

Oskar-Messter-Str. 29, 85737 Ismaning, Germany

E-mail Contact energy.storage@samsung.com

Dealer Information Box