

# vLight: The Ultimate Retrofit Solution for Solar Homes

Elevate your home's solar system with vLight, the premier choice for homeowners seeking a smart cost-effective upgrade to their existing solar energy setup. With vLight, you can maximize the potential of your solar investment without the need for a complete overhaul.

## Effortless Integration with Existing Solar Setups

vLight is crafted to integrate seamlessly with your current solar system, requiring no replacement of your existing components or significant structural changes to your solar system. vLight's design ensures that it works in harmony with your current solar inverter, providing a hassle-free upgrade to your energy capabilities.

## Universal Compatibility for a Wide Range of Solar Systems

vLight is engineered to be compatible with almost all types of solar systems available in the market today. Regardless of the specific solar panels or inverters you have installed, standout versatility of vLight can ensure a smooth transition to advanced energy storage.

## Advanced Energy Storage with Minimum Costs

Our solution with vLight offers advanced energy storage capabilities without the need for extra components like PCS. This means you can enjoy the benefits of energy storage at a fraction of the cost, making it the most economical choice for solar-equipped homes.

## Optimized Solar Power Utilization

With vLight, you can store your solar energy for use when you need it most, ensuring that your home runs on clean, renewable power even when the sun isn't shining. This smart storage solution optimizes your solar energy usage and extends the benefits of your solar system.

## Simplified Installation and Enhanced System Reliability

The vLight solution simplifies the installation process and enhances the reliability of your solar energy system. With fewer components required, there's less to maintain, which can lead to lower maintenance costs and a more stable solar energy experience.







# vLight

## Smart Energy Storage System



### Convenience

PV-coupled battery storage solution. Enable battery directly connect to solar route. No additional storage inverter is needed. Higher efficiency of PV energy utilization.



### Modular Design

Modular design, a single module weighs < 30kg and supports single person installation.



### Efficiency

Highly adaptive to most solar inverters. Easy to retrofit, no change on AC wirings.



Type	vLight-7	vLight-10	vLight-14	vLight-17	vLight-20(1)
<b>Input (PV Port)</b>					
PV maximum input voltage			1000 V d.c.		
Operating voltage range			360-900 V d.c.		410-900 V d.c.
PV maximum input current			27 A d.c.		
Maximum short circuit current-Isc			36 A d.c.		
Number of PV string			1		
<b>Output (Inverter Port)</b>					
Output voltage range			360-900 V d.c.		410-900 V d.c.
Maximum continuous output current			27 A d.c.		
<b>Battery</b>					
Battery cell type			LFP		
Operating voltage range	108.0-127.8 V d.c.	162.0-191.7 V d.c.	216.0-255.6 V d.c.	270.0-319.5 V d.c.	324.0-383.4 V d.c.
Battery energy	6.9 kWh	10.3 kWh	13.8 kWh	17.2 kWh	20.7 kWh
Rated power <sup>(2)</sup>	≥2.7 kW	≥4.1 kW	≥5.4 kW	≥6.8 kW	≥8.1 kW
Maximum output power <sup>(3)</sup>	3.2 kW	4.8 kW	6.4 kW	8.0 kW	9.6 kW
Maximum discharge/charge current			25 A d.c.		
Pack dimensions (W*D*H, mm)	795x218x767	795x218x959	795x218x1150	795x218x1342	795x218x1533
<b>General Specification</b>					
Weight	80.7 kg	109.7 kg	138.7 kg	167.7 kg	196.7 kg
Protective class			I		
Operating temperature range			-20 C to +55 C (power derating above 45 C)		
Operating humidity			5%-95% RH		
Maximum operating altitude			2000 m		
Protection level			IP65		
Converter weight			19.2 kg		
Converter dimensions (W*D*H, mm)			798x220x335		
Communication method			Dongle/RS485		
Noise			≤ 30 dB		
<b>Compliance</b>					
Standard	IEC/EN 62109-1, IEC/EN 62477-1, IEC/EN 62619, IEC/EN 63056, UN38.3				
Certificates	CE/CB/TUV MARK				
EMC	EN 61000-6-1, EN 61000-6-3				

(1) vLight-20 is only applicable to three-phase inverters.

(2) The maximum continuous output power of the battery before reaching the discharge cut-off voltage.

(3) The maximum output power when the battery is fully charged.

An aerial photograph of a winding asphalt road cutting through a dense, misty forest of evergreen trees. A single car is visible on the road, moving away from the viewer. The overall atmosphere is serene and slightly hazy.

**I**nvolving to mobilize energy revolution.

**E**volving to a sustainable future.



Star Charge