

SOLUNA

POWER DESIGNED FOR NIGHT AND DAY

Venus 16K Pack LV



TECHNICAL SPECIFICATIONS

PHYSICAL CHARACTERISTICS	
Dimensions (W*D*H)(mm)	545*220*850
Weight (kg)	127
Installation	Indoor / Outdoor
ELECTRICAL CHARACTERISTICS	
Battery type	LFP
Total Energy Capacity (kWh)	16.07
Usable Energy Capacity (kWh)	14.46
Nominal capacity(Ah)	314
Nominal voltage (V)	51.2
Voltage range (usable) (V)	44.8 to 56.8
Charge/Discharge Current(A)	150
Charge/Discharge Power(KW)	7.68
Max.Charge/Discharge Current(A)	160 / 220
Max.Charge/Discharge Power(KW)	8.2 / 11.2
Recommend Depth of Discharge	80%
Max Depth of Discharge	90%
Cycle life@ 25°C(under standard charge and discharge conditions)	≥10000
DC Disconnect	Contactor / Fuse
BMS	
Monitoring parameters	System voltage . System current . Cell voltage . Cell temperature . SOC . SOH
Communication	CAN / RS485
OPERATING CONDITIONS	
Operating temperature (°C)	-10 to 50
Operating temperature(recommended)(°C)	15 to 30
Storage temperature(recommended)(°C)	-20 to 60
Humidity conditions	5 to 95%
Altitude(m)	Max.2,000
Cooling strategy	Natural convection
RELIABILITY AND CERTIFICATION	
Certification	UL1973 . 9540A . 9540 . IEC62619, EMC,ROHS
Transportation	UN38.3
Ingress protection rating	IP65
WARRANTY	
Product and performance	10-year warranty

KEY FEATURES

-  IP65
-  Scalable to 480kWh
-  Safest LiFePO₄ battery
-  Long lifespan
-  Easy Installation
-  Floor, Wall Mounted
-  Aerosol fire protection

The Soluna Venus 16K Pack LV is a residential and small-commercial LiFePO₄ battery equipped with an intelligent BMS for enhanced fault protection. Delivering **16 kWh** per unit and scalable up to **480 kWh** with **30 parallel batteries**, it offers secure, flexible, and high-performance energy storage supported by a 10-year warranty and **10000**-cycle lifespan.

