

# SMART ESS SOLUTION

VEL51100/VEL51200

▶ **RATED VOLTAGE: 51.2V**  
**MAXIMUM ENERGY: 10KWH**



Intelligent BMS  
Multiple protections



Easy to expansion  
Maximum up to 40kwh



Safe and reliable  
The safest LFP battery cell



Modular design  
Easy maintenance



Excellent performance standards  
8000 cycles lifespan



Easy installation  
Saving installation time and cost

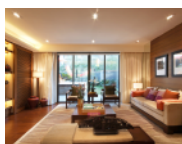
## ▶ APPLICATION SCENARIOS



Villa



Telecom base station



Household



Island cottage



Pasture



Farmhouse



## ► TECHNICAL SPECIFICATIONS

Model	VEL51100	VEL51200
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### General data

Rated voltage	51.2V	51.2V
Rated charging voltage	58.4V	58.4V
Working voltage range	44.8V~54.4V	44.8V~54.4V
Rate energy	5.12kWh	10.24kWh
Configuration	16S1P	16S2P
Weight	Approx.74kg	Approx.116kg
Dimension (W*D*H)	640*350*680mm	
Max. charging/discharging current	1C@100A	
Cycle life	8000 cycles@80%DOD,0.5C,25°C	
Self-discharge@25°C	< 2%/month	
Communication	RS485,RS232,CAN	
Safety	UL1973,IEC62619,IEC62620,CE,UN38.3	
IP grade	IP20	
Cooling	Natural cooling	
Dilatation	Up to 40kWh	
Protection	Over voltage & Under voltage/Over current/Short-circuit/Over temperature & Under temperature protection etc.	

### Environment

Storage temperature	-10°C~55°C
Operation temperature	0°C~45°C
Altitude	0~4000m (derating over 2000m)
Relative humidity	0~95% RH

### Cell

Cell materials	LFP
Rated voltage	2.50V~3.65V
Rated energy	320Wh
Weight	1.96kg
Dimension (W*D*H)	160*49.9*120.9mm

### Module

Module configuration	16S1P
Rated voltage	44.8V~54.4V
Rated energy	5.12kWh
Weight	42kg
Dimension (W*D*H)	482*427*130mm

### Disclaimer:

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