

ALL IN ONE POWERWALL

INTEGRATED WITH INVERTER



INTRODUCTION

Home energy storage using high quality catl lithium battery cell, equipped with BMS battery management system, mainly used in small capacity home energy storage, there are 100ah, 150ah, 200ah, 250ah and other capacity options, up to more than 10 years of service life, lightweight design, efficient power

APPLICATION



Solar Energy



Residential Area



Industrial Area



New Energy Vehicle



ALL IN ONE POWERWALL

VALUE



More Usable Energy

90% Depth of Discharge
Pack Level Energy Optimization



Easy Installation

Standard design with helpful
pulling ear quick stacking



Smart BMS system

Each module is equipped
with an independent BMS system



Longer Lifetime

6000 cycles, 10 years design life



Safe & Reliable

Safe lithium iron phosphate cell



Modular design

Compact size and light weight

ELECTRIAL CHARACTERISTICS

Project	Description	
Basic Parameter	Battery Type	LifePO4(Iron Phosphate Battery)
	Total Energy Capacity	10.24 kWh
	Usable Energy Capacity	9.22kWh
	Battery Capacity	202Ah
	Operating Voltage Capacity	44.8 to 58.4 V DC
	Nominal Voltage	51.2 V DC
	Charge/Discharge Current	100A
	Max. Charge/Discharge Power	5.12kW
	Battery Pack Round-Trip Efficiency	>95% (under specific condition)
	Communication Interface	CAN 、 RS232、 RS485
	DC Disconnect	Circuit Breaker, Contactor, Fuse
	Battery Discharge Rate	0.5C
	Expected Life Time	10 years
	Calendar Life(cycles)	6000@25°C, 90%DOD

INVERTER SPECIFICATION

Project	Description
Rated Output Power(VA)	5000
Rated Output Power(W)	5000
Rated Input Voltage	220/230Vac
Frequency	50Hz±0.3Hz/60Hz±0.3Hz
Maximum AC Charging Current	60A
Charge Current Error	±3Adc
Charge Voltage Range	40-58Vdc
Short Circuit Protection	Circuit Breaker and Blown Fuse
Circuit Breaker Specification	40A
Overcharge Protection	Alarm and Turn Off Charging After 1 Minute
Power Factor	1
Output Voltage Waveform	Pure Sine Wave
Conversion Time	10ms(typical)
Maximum Efficiency	>92%

OPERATING CONDITION

Project		Description
Environment	Installation Location	Indoor / Outdoor (Wall-mounted / Floor Standing)
	Operating Temperature	-10 to 50°C
	Operating Temperature(Recommended)	15 to 30°C
	Storage Temperature	-30 to 60°C : acceptable for 7 days in total -20 to 45°C : acceptable for the first 6 months -20 to 30°C : acceptable for 7th ~12th month
	Humidity	5% to 95%
	Altitude	Max.2,000 m
	Cooling Strategy	Natural Convection
	Alarms	Overcharge, Over-discharge, Over-current, Over-temperature, Short Circuit
	Protection Level	IP30

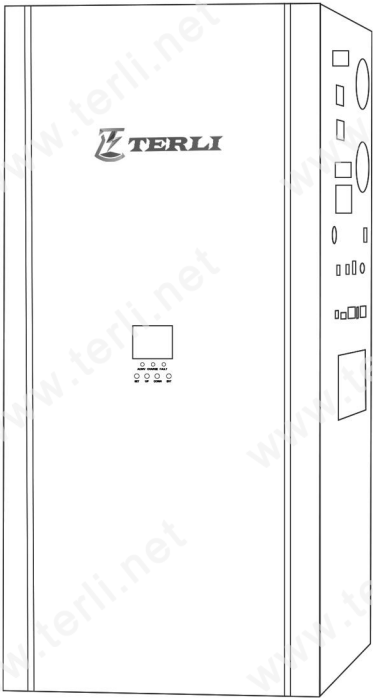
CERTIFICATION

Project		Description
Guarantee	Safety	Cell UL1642
		Battery Pack IEC62619 /IEC60950(LVD) / CE
	Emissions	IEC61000-6-1, IEC61000-6-3
	Hazardous Materials	Classification Class 9
	Transportation	UN38.3

- ※ Test Conditions - Temperature 25°C, at the beginning of life
- ※ Total Energy is measured under specific condition from LC (0.3CCCV/0.3CC)

MECHANICAL CHARACTERISTICS

		Battery	Package
Dimensions	Length	900mm	940mm
	Width	480mm	520mm
	Height	250mm	290mm
Weight		130kg	140kg
Color		White	



COMPATIBLE STORAGE INVERTERS WITH ALL IN ONE POWERWALL





SRNE 碩日



德業





victron energy
BLUE POWER





POWER^{TEK}





精石科技
GSSTES



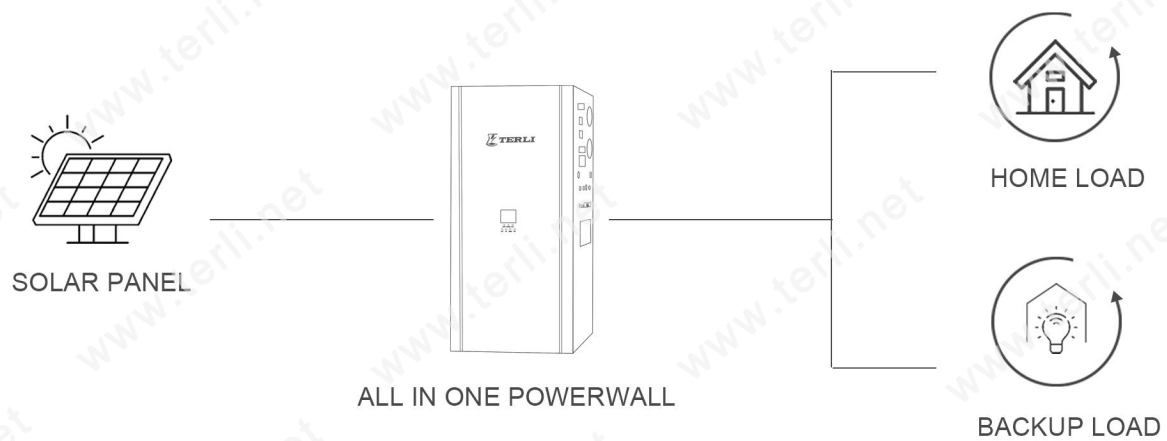


GOODWE

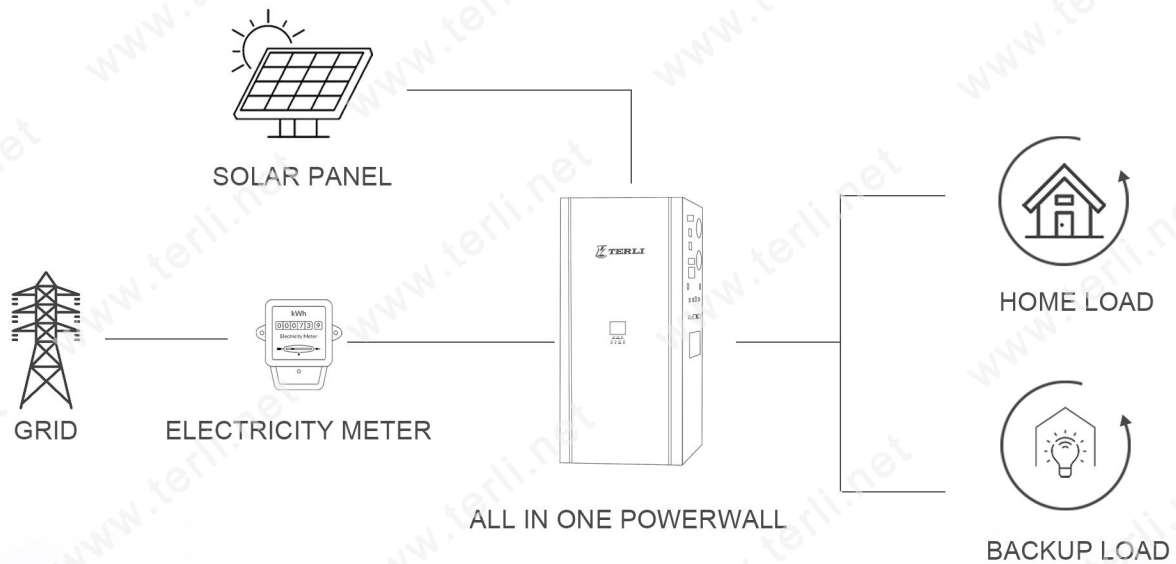


Power Solutions Expert

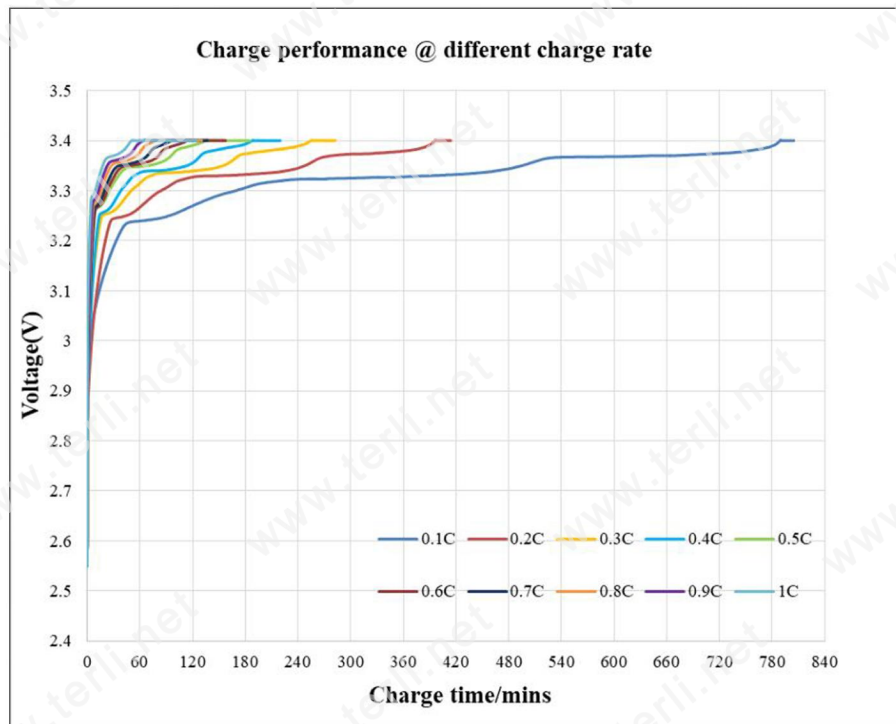
OFF-GRID SYSTEM



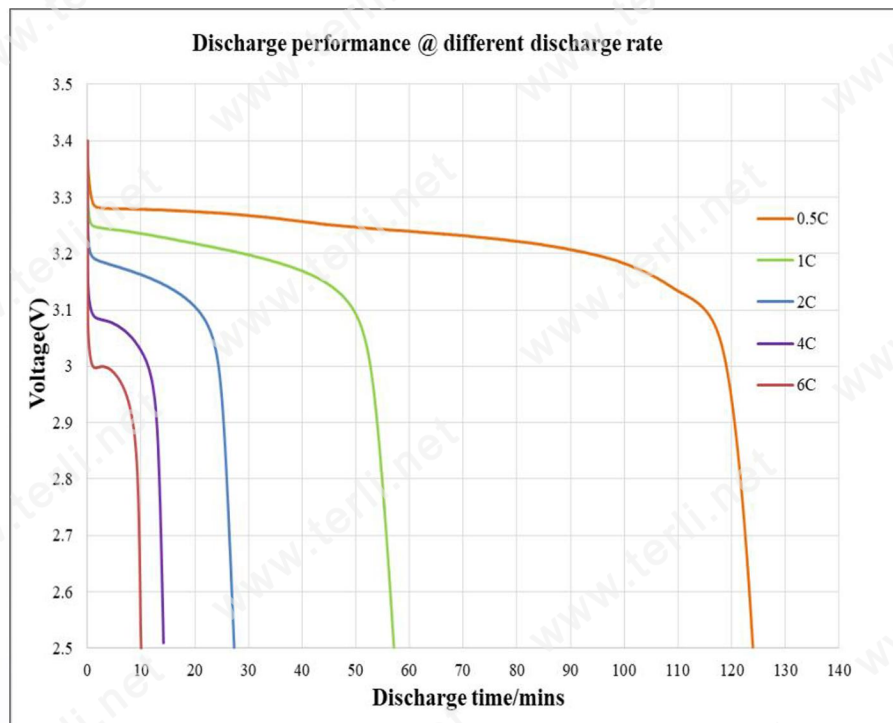
HYBRID SYSTEM



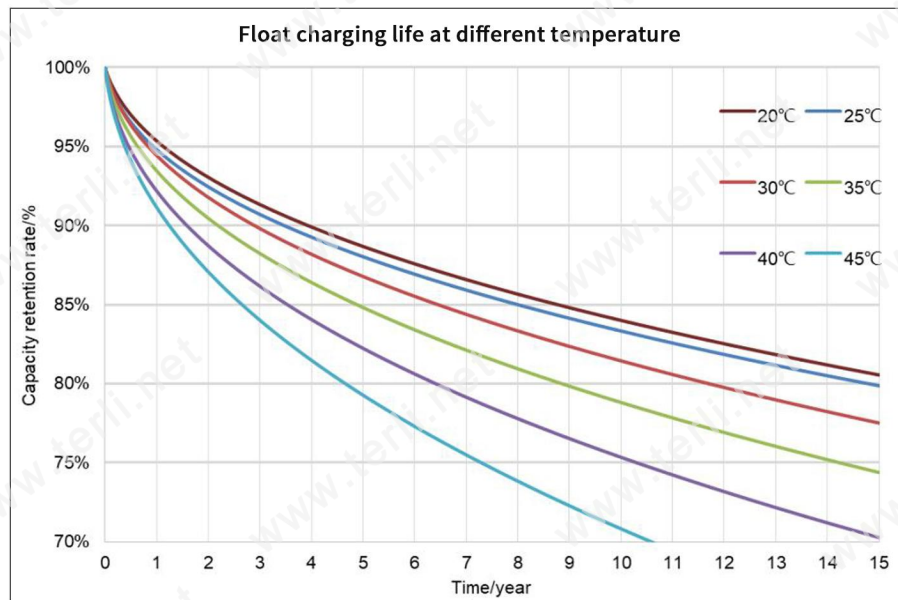
CHARGING CURVES UNDER DIFFERENT CHARGING RATES



DISCHARGE CURVE UNDER DIFFERENT DISCHARGE RATES



FLOATING CHARGING LIFE CURVES AT DIFFERENT TEMPERATURES



CYCLE LIFE CURVES AT DIFFERENT TEMPERATURES AND DOD CONDITIONS

