

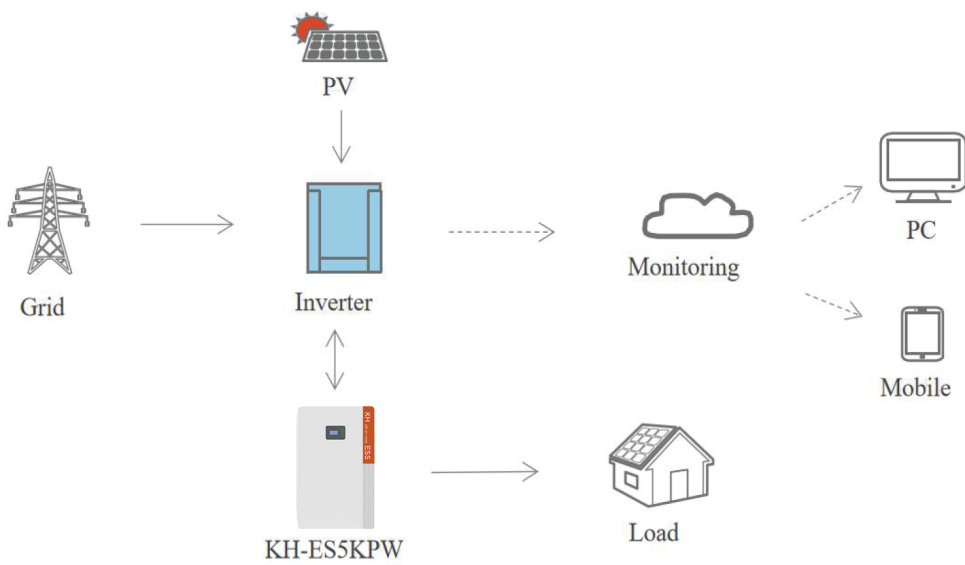
# KH-ES5KPW

POWER YOUR HOME WITH GREEN ENERGY



KH-ES5KPW is a 48V low voltage battery module that enables energy storage to maximise self-consumption from your solar system to reduce electricity bills and provide energy independence. Suitable for residential or commercial solutions keeping you powered night and day.

Number of expandable battery units : up to 14units(5KWH\*14units=70KWH maximum)



## FEATURES

- 24-hour clean energy supplying
- 10 years designed lifespan
- Flexible design, easy to scale up
- Easy to wall mount
- Compact size and space saving

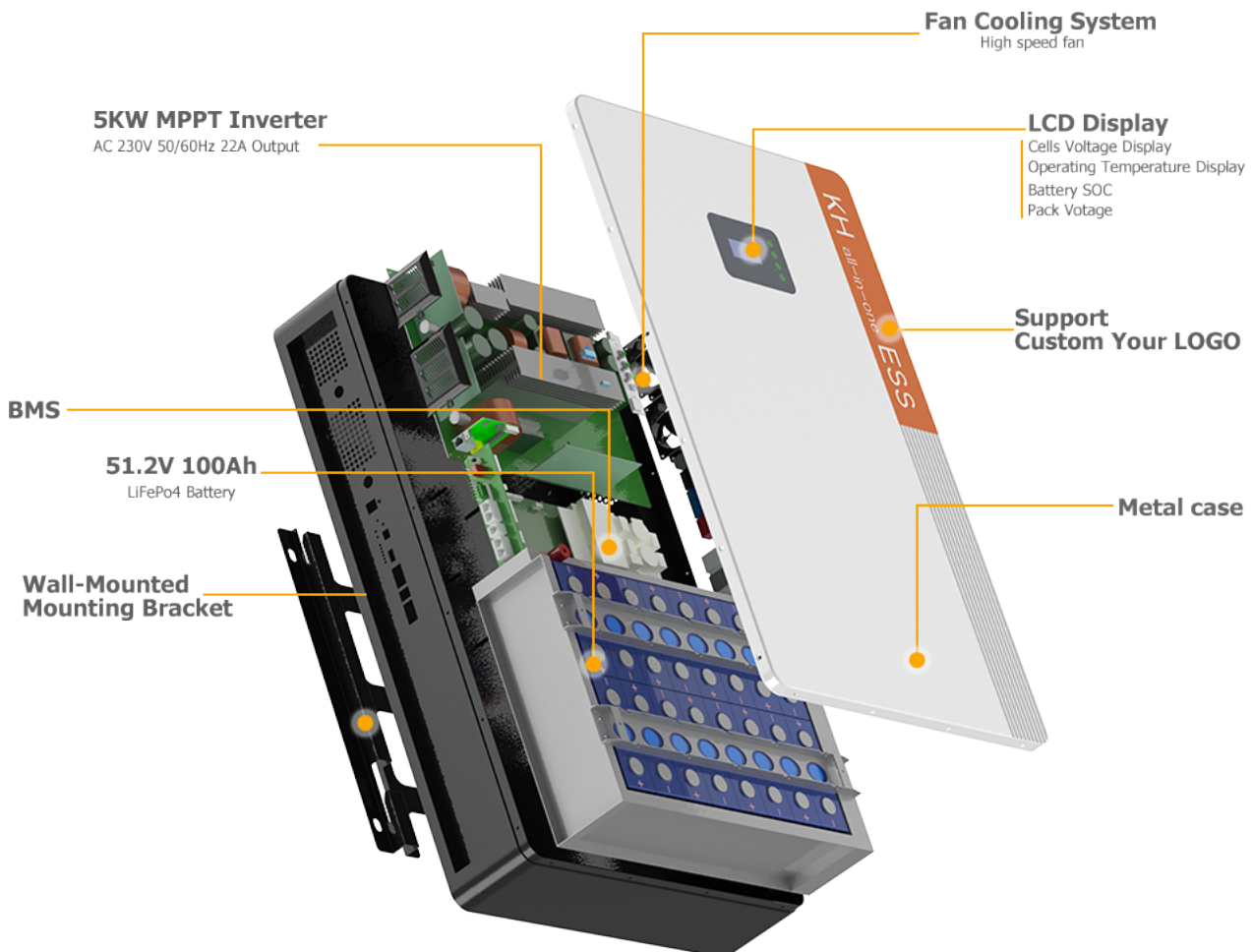
## SPECIFICATIONS

Nominal Voltage	51.2V
Rated Capacity	100AH @0.5C to 42V
Stored energy	5120Wh
Chemistry	LiFePO4
Life Expectancy (years)	10 years @ 25° C
Charge Cut-off Voltage	58.4V
Discharge Cut-Off Voltage	41.6V
Internal Resistance	≤70.0 m Ω
Max. Continuous charge Current	100 A
Max. Continuous discharge Current	100 A
Cycle life@100%DOD	>2000 Cycles@100%DOD >4000 Cycles@80%DOD >7000 Cycles@50%DOD
Self-Discharge Rate	≤3%/month @ 25° C
Battery Pack Round-Trip Efficiency	Up to 98%
Approx. Weight	60 kg
Dimensions	L445mm×W259mm×H600mm
Series & Parallel Connection	Maxium 14 units in parallel Connection
Operating Temperature Range	
Charge	32°F (0°C) to 113°F (45°C)
Discharge	-4°F (-20°C) to 140°F (60°C)
Storage	-4°F (-20°C) to 140°F (60°C)
Installation	Wall-mounted
Humidity Conditions	10% to 90%
Cooling method	Natural cooling
Installation	Wall-mounted
Installation Altitude(above sea level)	≤2,000m
Certification	CELL: UN38.3, UL1642, CE BATTERY: UN38.3, CE
Communication with BMS	RS485/CAN
Monitoring parameters	System Voltage System Current Cell Voltage Cell temperature

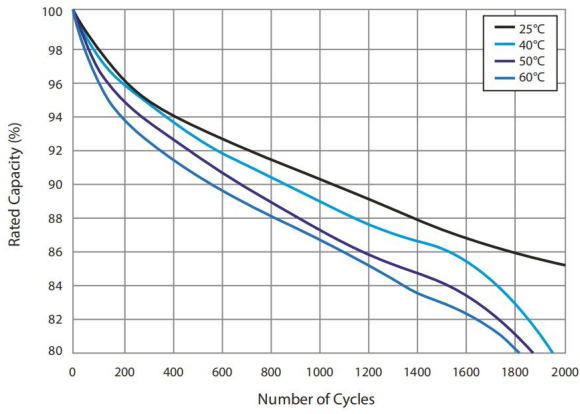
## HIGH FREQUENCY INVERTER PARAMETERS

<b>High frequency inverter parameters</b>	
Power	5000VA/5KW
DC input	48VDC/115A
AC output	230VAC,50/60Hz,22A
<b>AC charger mode</b>	
AC input	230VAC, 50/60Hz, 22A
DC output	54VDC (maximum 80A, default 30A)
AC output	230VAC.50/60Hz.22A
<b>Solar charging mode</b>	
Power	6KW
Maximum solar voltage	495VDC
MPPT voltage range	60-450VDC

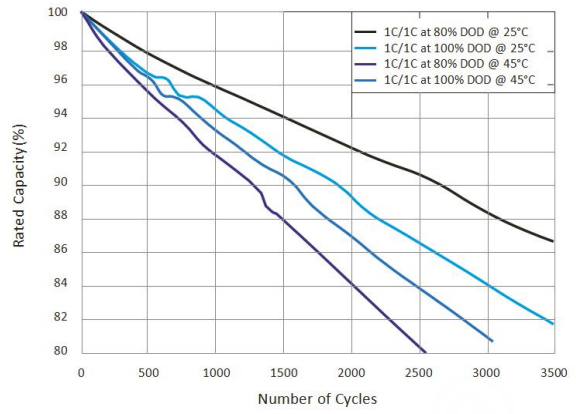
## ALL IN ONE POWERWALL **NEW DESIGN**



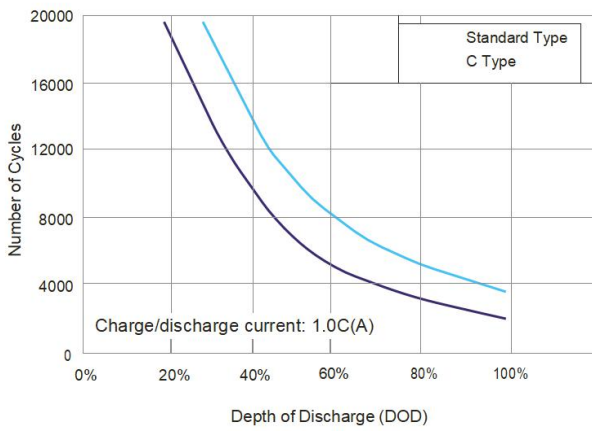
**CHARACTERISTIC CURVE**



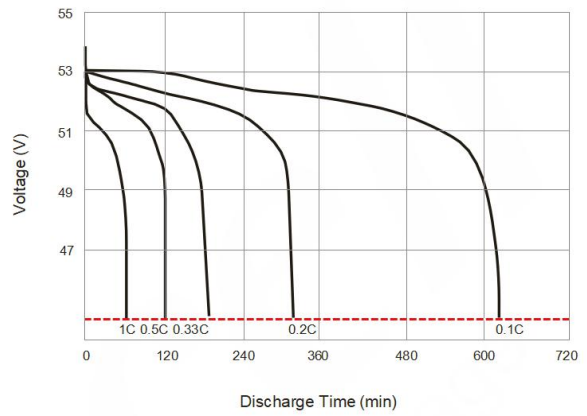
**100% DOD Cycle Curves at Different Temperatures**



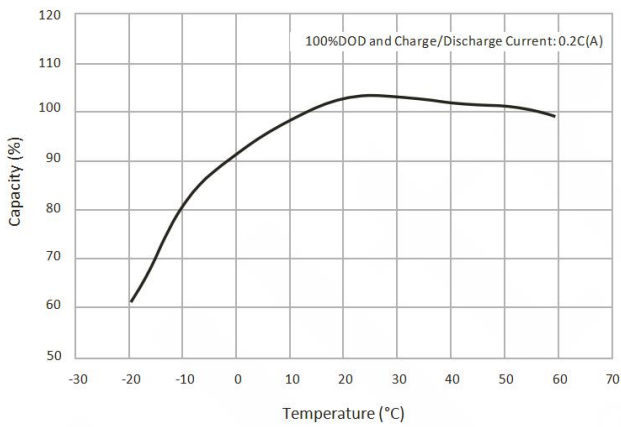
**1C Cycle Curves at Different DOD & Temperatures**



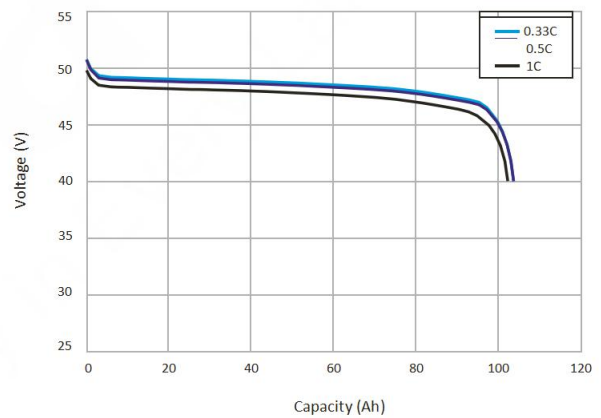
**DOD in Relation to Cycle Life (25°C)**



**Discharge Time in Relation to Discharge Rate (25°C)**



**Temperature Effect in Relation to Battery Capacity**



**Discharge Capacity in Relation to Discharge Rate**

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