

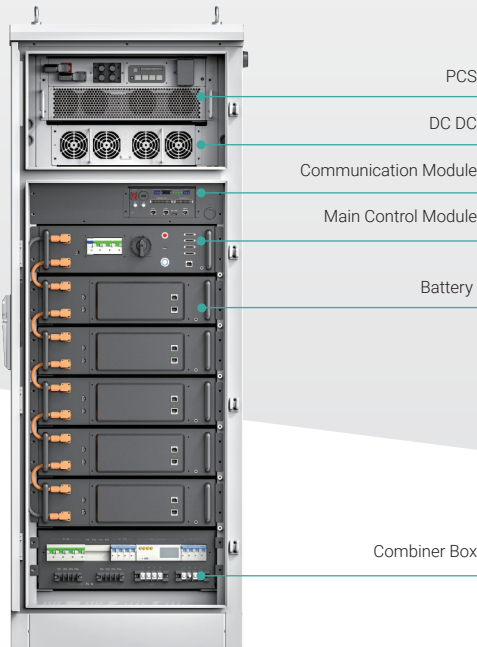
ALL-IN-ONE

48kwh SYSTEM

30kW PCS

480V

IP54



Key Features



Simplified Design & Convenient Installation

Integrated and modular design
for easier BESS wiring and maintenance



Extreme Compatibility

Built-in **Sinexcel PCS and MPPT** to achieve
both On-Grid and Off-Grid Connections



Easy Expansion

Supported **unlimited parallel** to suit for C&I
and large Residential power backup

30KW

High Power

Support **30kW** AC output
and PV Input

50%

Higher Efficiency

Intelligent HMI improves operational efficiency
by over 50%, simplifying the monitoring and
control of complex systems.

30%

Space Utilisation

Takes up 30% less space than similar
products in the market and makes the
installation more beautiful.

48 kWh ESS Platform

Battery Energy Storage

Cell Type	LFP 3.2V/100AH
Module Combination	1P30S
System Combination	5 modules in series
Capacity (kWh)	48
Nominal Voltage (V)	480
Voltage Range (Vdc)	405~547.5
Discharge Depth	90% DoD

Alarm & Protection

Input/Output Voltage Protection	Over/under voltage will automatic shut down and restart when voltage return to normal
Over Current/ Short Circuit Protection	Automatic shutdown and lock, need power off to restart to unlock
Over Temperature Protection	Automatic shutdown, automatic restart when the temperature return to normal

AC System(With PCS)(optional)

Dimensions(W*D*H)	657*780*1803mm / 26*31*71in
Total Weight	720kg / 1587lb

AC Output	US	EU
Rated Output Power(kW)	30	30
Maximum Apparent Power(kVA)	33	33
Maximum Active Power(kW)	33	33
Rated Grid Voltage(Vac)	3L+PE,480(±15%)	3L+N+PE,400(±15%)
Rated Frequency(Hz)	60(±5)	50(±2.5)

System Characteristic

Communication Interface	CAN, RS485, Wi-Fi, LTE
Cycle Life	8000 times @ 80% DoD
Warranty	3 years free, paid from the 4th to the 15th year

General Parameters

Operation Altitude	2000m / 6561ft
IP Rating	IP54
Operating Temperature	0°C to 55°C (Optional: -20°C to 55°C)
Operating Humidity (RH)	0 to 95%
Storage Conditions	-20°C to 30°C Up to 95% RH, non-condensing State of Energy (SoE): 50% initial

PV Input

Topology	Isolation
Input Voltage(V)	300~825
Starting Voltage(V)	375
Max Input Current(A)	50
Rated Power (kW)	30
Number of MPPT	1
No. of PV Strings per MPP Trackers	4

DC System(With DCDC)(optional)

Dimensions(W*D*H)	657*780*1570mm / 26*31*62in
Total Weight	660kg / 1455lb

DCDC Output	PBM048020D0	PBM048015D0
Voltage Range (V)	405~547.5	150~1000
Current Range(A)	0~95	0~100
Rated Current (A)	95	50
Maximum Load Power(kW)	20	15
Load Regulation	\	<+0.5%
Stable Current Accuracy	\	<+1% (output load 20%~100% rated range)

System Characteristic

Communication Interface	CAN, RS485, Wi-Fi, LTE
Cycle Life	8000 times @ 80% DoD
Warranty	3 years free, paid from the 4th to the 15th year