

Preliminary



## Ultra Cube

D2.4XC-2.4/D2.4XC-4.8

Ultra Cube is an off-grid all-in-one ESS grandly launched by Dyness, focusing on the urgent need for backup power in areas with unstable power grids. Optional battery capacities of 2.4 kWh and 4.8 kWh, dual-channel MPPT to easily track PV power input, and LCD screen to clearly display the ESS' operating status. Ultra Cube has two sockets that can be connected to household loads directly, and its wheels can be pushed or fixed. Highly integrated and no installation required.

- ◆ All-in-one design, no installation required.
- ◆ Dual MPPT design
- ◆ LCD display
- ◆ Uninterruptible power supply output, less than 20ms switching.
- ◆ The grid input voltage range is 180~264V, easily coping with unstable grid conditions.

# Datasheet

Model Name	Ultra Cube			
Battery Data				
Model Name	D2.4XC-2.4		D2.4XC-4.8	
Battery Type	Li-Ion			
Single Cell Rated Energy (kWh)	2.4			
Single Cell Nominal Capacity (Ah)	50			
Number of modules	1	2		
System capacity (kWh)	2.4	4.8		
Rated Voltage (V)	48			
Maximum Input power of the battery system (W)	1200	2400		
Maximum Output power of the battery system (W)	1200	2000	2400	
Cycle Life	6000			
Max Grid Charging Power (W)	1200	1680		
Max Grid Continuous Charging Current (A)	25	30		
Max PV Charging Power (W)	1200	2400		
Max PV Continuous Charging Current (A)	25	50		
PV String Input Data				
Max. PV Input Power (W)	1200	2400		
Number of DC input	4			
Number of MPP Trackers	2			
Max. Input Voltage (V)	65			
MPPT Range (V)	18-60			
Max. Input Current (A)	28			
Off-grid Output Data				
Nominal Output Voltage (V)	120	230	120	230
Nominal Apparent Power (VA)	1200		2000	2400
Nominal Output Frequency (Hz)	50/60			
THDv	≤3%			
Overvoltage Protection	Integrated			
Short Circuit Protection	Integrated			
Overtemperature Protection	Integrated			
AC Input Data (On-grid)				
Input Voltage Range (V)	90-132	180-264	90-132	180-264
Nominal AC Grid Frequency (Hz)	50/60			
Max. AC Current From Utility Grid (A)	18	12	18	12
Grid Input Overload Current (A)	20	12	20	12
Power Factor	≥0.97			
Grid To Off-grid Transfer Time (ms)	≤20			
Off-grid To Grid Transfer Time (ms)	≤10			
General Data				
Dimension (W×H×D mm)	540*560*252			
Weight (kg)	43.5	65.5		
Ingress Protection Rating	IP20			
User Interface	LCD			
Communication with BMS	CAN			
Cooling Method	Fan Cooling			