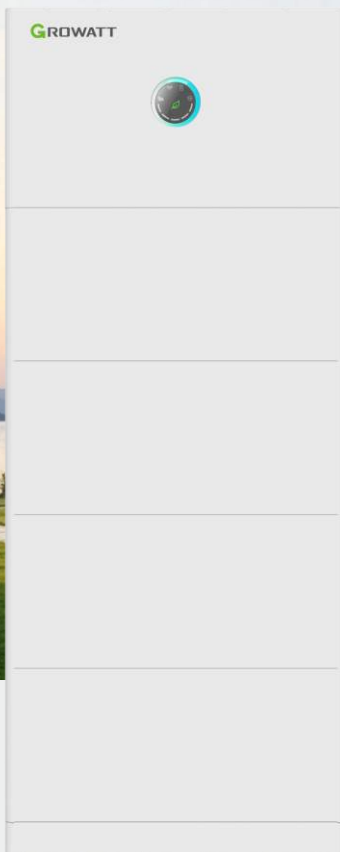


MODA All-In-One ESS EU

- Up to 3 MPPTs with 2.0 DC/AC ratio for higher yield
- Battery Optimizer — mix old & new with ease
- 63A for reliable whole-home backup
- VPP-ready for intelligent energy management
- Two-way DC Charger V2G — Coming soon



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System Model	MODA 4-15kTL3-HU-1	MODA 4-15kTL3-HU-2	MODA 4-15kTL3-HU-3	MODA 4-15kTL3-HU-4	MODA 4-15kTL3-HU-5	MODA 4-15kTL3-HU-6	
System schematic							
Number of inverter module	1						
Number of battery module	1	2	3	4	5	6	
Energy capacity	5kWh	10kWh	15kWh	20kWh	25kWh	30kWh	
System weight* ¹	74.3kg	118.9kg	163.5kg	208.1kg	254.7kg	299.3kg	
System dimension (W/D/H) ²	590/255/685	590/255/950	590/255/1215	590/255/1480	590/255/1745	590/255/2010	
Inverter Model	MODA 4kTL3-HU	MODA 5kTL3-HU	MODA 6kTL3-HU	MODA 8kTL3-HU	MODA 10kTL3-HU	MODA 12kTL3-HU	MODA 15kTL3-HU
PV Side							
Max recommended PV power	8000W	10000W	12000W	16000W	20000W	24000W	30000W
Max.DC voltage	1000V						
Start voltage	160V						
Nominal voltage	600V						
MPP work voltage range	140-1000V						
No.of MPP tracker/String per tracker	3/1						
Max input current per MPP tracker	20A						
Max.short-circuit current per MPP tracker	25A						
AC Side (Grid port)							
AC nominal power	4000W	5000W	6000W	8000W	10000W	12000W	15000W
Rated AC apparent power	4000VA	5000VA	6000VA	8000VA	10000VA	12000VA	15000VA
Nominal AC voltage/range	230V/195.5-253V						
Nominal frequency/range	50Hz/45-55Hz ; 60Hz/55-65Hz						
Max.input/output current	63A/6.7A	63A/8.3A	63A/10A	63A/13.3A	63A/16.7A	63A/20A	63A/25A
Adjustable power factor	0.8leading...0.8lagging						
THDi	< 3%						
AC connection	3W+N+PE/3W+PE						
AC Side (Backup port)							
Rated output apparent power	4000VA	5000VA	6000VA	8000VA	10000VA	12000VA	15000VA
Peak output power	6000W@10s	7500W@10s	9000W@10s	12000W@10s	15000W@10s	18000W@10s	22500W@10s
Max. output current (Off-grid)	7.3A	9.1A	10.9A	14.5A	18.2A	21.8A	27.3A
Max. output current (On-grid)	63A						
Switch time	20ms						
Efficiency							
Max.efficiency	98.60%						
European efficiency	97.50%						
Battery Side							
Battery model	APX 5.0P-B3						
Battery dimension (W/D/H)	590/255/265						
Battery weight	45kg						
Normal voltage	600-980V						
Energy capacity	5-30kWh						
Max.charge/discharge power* ²	12000W/4000W	15000W/5000W	15000W/6000W	15000W/8000W	15000W/10000W	15000W/12000W	15000W/15000W
DoD	100%* ³						
Cycle life	10000* ⁴						
DC Charger							
Max. charging/discharging power	25kW						
Protection							
Safety protection feature	DC reverse polarity protection, DC&AC SPD, Insulation protection, AFCI protection, Over current protection, Over voltage protection, Over temperature protection, GFCI protection, Anti-islanding protection						
General Data							
Operating temperature range	-20~50℃						
Altitude	4000m						
Nighttime power consumption	< 40W						
Cooling	Natural cooling						
Relative humidity	0~100%						
Protection degree	IP66						
Installation method	Floor/Wall mount						
Interfaces	RS485, CAN, USB, APP						
Warranty	10 years						
Country of manufacturing	Made in China						

*1 System weight & dimensions include the base.

*2 Battery charge/discharge power is limited by both the number of battery modules and the power of inverter.

*3 Test conditions: 100% depth of discharge, 0.2C charging&discharging at 25±2℃, at the beginning of life.

*4 Provided by the battery manufacturer. Test conditions: 25℃±2℃, 0.25C charge and discharge rate, EOL: 60%.

* Specifications are provisional and subject to change.

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