

Single Phase Off Grid ESS

DOVA 505



Easy-to-setup

- Quick & easy-to-setup with basic tools



Reliable

- Smart energy management
- Battery pack IP65
- High quality cells inside
- All-round BMS protection



User-friendly

- Inverter and battery modules can be installed separately
- Easy to move
- Shadow Optimization Management system

ESS Model:	DOVA 505		
Battery Pack Model:	DOVA-5BY		
System data			
Nominal Voltage	51.2V		
Battery Voltage Range	43.2V~57.6V		
Rated Capacity	5.12 kwh		
Rated Charging / Discharging Current	80A		
Cell Type	LiFePO4		
General			
Protection	Over charge	Over discharge	Short-circuit protection
Communication Interface	CAN	RS485	RS232
Dimensions (W x H x D)	585* 360*150mm		
Weight	49kg		
Cooling	Natural heat dissipation		
Ingress Protection	IP65		
Life Cycle	6000 cycles		
PV Inverter Model:	DOVA-5I		
PV Input			
Max. PV Array Power	5500 W		
MPPT Operating Voltage Range	120-430Vdc		
Max. Input Voltage	450V		
Max. Operating Input Current	20A		
No. of MPP Trackers / Strings	1		
Battery Input			
Rated Voltage	51.2 V		
Max. Charging/Discharging Current	80 A		
AC Input			
Rated Grid Voltage	208/220/230/240 VAC		
Voltage Range	90~280 V		
Frequency Range	40~70 HZ		
Rated Input Current (RMS)	20 A		
Max. Input Current (RMS)	22.7 A		
AC Output			
Rated Output Power	208/220/230/240 VAC		
Waveform	Sinusoidal		
Rated Apparent Power	5000 VA		
Power Factor	~1		
Output Frequency	50/60Hz ± 0.1%		
Max. Total Harmonic Distortion (THDi)	<3%(Linear Load) <5%(Non-linear Load PF=0.7)		
Efficiency			
MPPT Efficiency	99.5% max		
Max. Efficiency	>99.5%		
Battery Mode	>93.5%@1KVA	>93.5%@3KVA	>91.5%@5KVA
General			
Operation Environment Humidity	20%~95%(No condensing)		
Max. Operating Altitude	4,000 m (13,123 ft.) (Derating above 2000 m)		
Protection	AC high(low) voltage, Battery high(low) voltage, Photovoltaic high(low) voltage, Overload, Short-circuit protection		
Communication Interface	RS232 / RS485 / USB Type-A / USB Type-B		
Ingress Protection	IP20		
Dimensions (Wx H x D)	585* 360* 110mm		
Weight	15kg		
Cooling	Active cooling		
Operating Temperature	-22 to 55°C		

* Warning Pay attention to waterproofing Do not block the ventilation openings Use flat to prevent tipping