Single Phase off Grid ESS
DOVA 505

DOVA - 505

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 (Battery)	
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 (Inverter)	
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 Efficiency	>93.5%@1KVA / >93.5%@3KVA / >91.5%@5KVA
General (Inverter)	
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,
Communication Interface	RS232 / RS485 / USB Type-A / USB Type-B
Ingress Protection	IP20
Dimensions (W x H x D)	585 * 360 * 110mm
Weight	15kg
Cooling	Active cooling
Operating Temperature	-22 to 55°C

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