



NEW
ENERGY

Off-grid All-in-one and Hybrid Inverter

Off-grid All-in-one

5KW/5KWh



- 1

All in one design

The inverter and battery are integrated into a single unit, simplifying the installation process and saving space.
- 2

High-efficiency energy conversion

High inverter efficiency reduces energy loss, providing more available electricity.
- 3

Strong environmental adaptability

Suitable for outdoor installation, capable of adapting to various environmental conditions.

SPECIFICATIONS

Model	DDYTJSG51100-5k-R	DDYTJSG51100-5k-R
Battery		
Cell Chemistry	LFP	
Nominal Energy (Wh)	5120	
Nominal Capacity (Ah)	100	
Nominal Votage (V)	51.2	
Working Voltage Range (VDC)	44.8~57.6	
Max. Charge/Discharge Current (A)	100A	
BMS Communication	CAN2.0/RS485	
PV Input		
Max. PV Input Power (W)	7500	
Max. PV Input Voltage (V)	600	
MPPT Voltage Range (V)	100~550	
Start-up Voltage (V)	125	
Number of MPPTs	2	
Number of PV Strings per MPPT	1/1	
Max. PV Input Current (A)	20	
AC Input and Output (On-grid)		
Nominal Input/Output Apparaent Power (VA)	5000	
Nominal Input/Output Voltage (V)	230	
Nominal Grid Frequency (Hz)	50/60	
Max. Output Current (A)	21.7	
THDi	<3%	
Power Factor	0.8 leading~0.8 lagging	
Switch time (ms)	10	
Grid Connection	Single Phase	
General Information		
Dimension [H*W*D] (mm)	500*834*156	320*660*499
Packing Dimension [H*W*D] (mm)	598*930*275	380*720*590
Weight (kg)	63	61
Packing Weight (kg)	67	63
Permissible Altitude (m)	4000 (>2000 derating)	
Dispaly Screen	LCD/LED	
IP Rating	IP21	
Working Temperature (℃)	(-20~60)	
Relative Humidity	0~95%, no condensation	
Cycle Life	6000 cycles	
Warranty	5 years	
Installation Type	Wall-mounted	Portable
Certification	IEC62619/EN61000-6-1/EN61000-3/RoHS/UN38.3	

Off-grid Hybrid inverter

3KW-6KW



Off-grid Solution



SPECIFICATIONS

Technical Data	FSA-4K1P-BL	AO-5KSL-G1	AO-6KSL-G1
Solar input Data			
Max. PV Input Power	4400W	6000W	7800W
Max. Input Voltage		550V	
Start-up Voltage	90V	120V	
MPPT Voltage Range	60V-450V	90V-500V	
Max. Input Current per Mppt	18A	27A	27A
Max. Short Circuit Current per Mppt	23A	33.75A	33.75A
Number of Mppt		1	
AC Input Data (Grid&Generator)			
Nominal Input Voltage		230Vac, L/N/PE	
Input Voltage Range		90~280Vac	
Max. Input Current	25A		35A
Nominal Input Power	5700W		8050W
AC Frequency Range		50/60Hz (Auto sensing)	
Battery Data			
Battery Type		Li-Ion/Lead-acid	
Nominal Battery Voltage	24V		48V
Battery Voltage Range	20-30V		42-60V
Max. Discharge Current	137A		
Max. Charge/Discharge Power	3300W	115A	137A
LHOn Battery Activation		5000/5520W	6000/6576W
LHOn Battery Communication		Yes	
Max. Solar Charge Current	120A	CAN/RS485	
Max. AC Charge Current	100A	100A	120A
Max. Charge Current (PV+AC)	120A	80A	100A
		100A	120A
Inverter Output Data			
Nominal Output Power	4000W	5000W	6000W
Peak Apparent AC Power	8000VA	10000VA	12000VA
Nominal AC Voltage		230V	
Nominal Grid Frequency		50/60Hz	
Voltage Waveform		Pure Sine wave	
Transfer Time		10ms	
Max. Output Current	17.4A	22A	27A
Overload Protection	30s@102%-110% load, 10s@110%-130% load; 5s@130%-200% load	3s@130%-150% load, 70s@110%-130% load	
THDv (@linear load)		<3%	
Efficiency			
Peak Efficiency		94%	
MPPT Efficiency		≥99.9%	
Protect			
DC Surge Protection		Yes	
AC Surge Protection		Yes	
AC Short Circuit Protection		Yes	
System Parameters			
Dimension (W*H*D)	290*423*116.6mm	333*580 5*120mm	
Weight	7.2kg	10 6kg	
Relative Humidity		5%~95% (Non-condensing)	
Operating Temperature Range		(-10℃~60℃)	
Noise Emission		<50dB	
Altitude		4000m	
Cooling Method		Fan Cooling	
Ingress Protection		IP20	
Characteristic			
Number of AC Output	2	2	2
Display		LCD&APP	
Communication Interface		RS485/ USB /CAN/ Wi-F	
Parallel Capability	9	9	9