

Energy Storage Hybrid Bi-Directional Solar Inverter



Performance

- Wide input voltage range.
- Compatible with lead-acid or lithium-ion batteries or other battery.

Design

- User-friendly, light weight, intelligent operation.
- Natural cooling, low noise.
- IP65 , wall mounted design, saving space.
- Touch screen LCD.

Reliable

- Compatible with lead-acid or lithium-ion.
- Batteries or other energy storage system.

Advanced

- Smart energy management system for home or office use.
- Independent power supply and critical demand response management.
- Remote virtual monitoring power management.

Application



Office



Communication
Base Station



Temporary Shelter



Power Plant

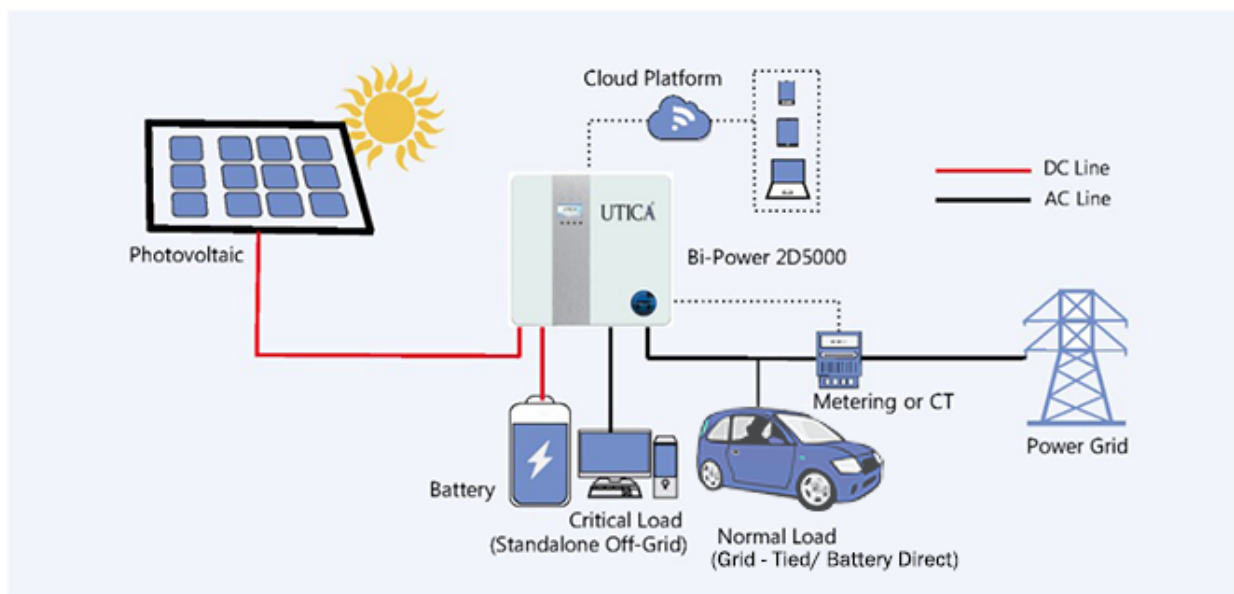


Household



Emergency
Power Supply

Product Topology



Model	Bi-Power 2D5000
DC input	
Max. Input Power	7000W
Start-up voltage	125V
Max. PV voltage	550V
MPPT range/nominal	125V-550V /360V
Max. input current	14A/14A
MPPT tracker/strings	2/1
AC output	
Rated power w/va	5000VA/5000W
Max. output current	21.7A
Nominal voltage/range	230V /180Vac~280Vac
Frequency	50 /60Hz
PF	1(0.8lagging-0.8leading)
THDI	<3%
AC output topology	L+N+PE
Battery	
Battery voltage range	42~59V
Max. charging voltage	58V
Charge/discharge current	95A/110A
Battery type	lithium /Lead-acid (2.4kWh storage included)
Communication interface	CAN/RS485
EPS output	
Rated power w/va	5000VA/5000W
Rated voltage	230Vac
Rated current	21.7A
Rated frequency	50 /60Hz
Automatic switchover time	<20ms
THDU	<2%
General data	
Battery chage/discharge	95.5%/95%
DC max. efficiency	97.6%
Euro efficiency	97%
MPPT efficiency	99.9%
Protection class	IP65
Noise emission (typical)	<35dB
Operation temperature	-25°C~+60°C
Cooling	Natural
Relative humidity	0~95% (non-condensing)
Altitude	2000m
Dimensions (WDXH)	550X200X515mm
Weight	25kg
Inverter topology	Without transformer
Self-consumption	<3W
Features	
Display	LCD
Interface:rs485/wifi/lan /can/drm	yes /opt/opt/yes/yes
Certificates	CE, TUV

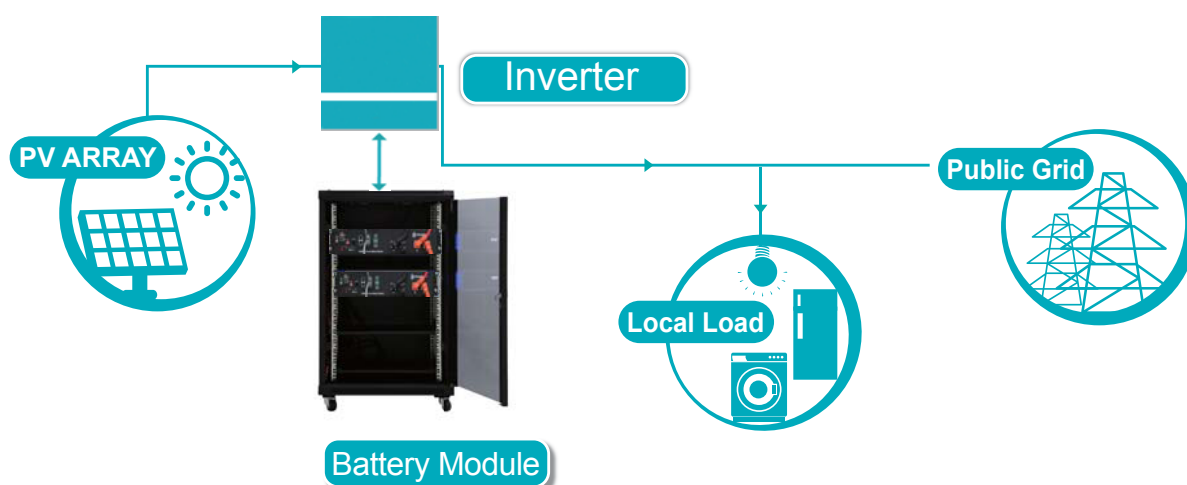


LOW VOLTAGE ENERGY STORAGE SYSTEM —FOR RESIDENTIAL AND SME



Advantages

- ◆ Vertical industry integration ensures more than 6000 cycles with 80% DoD
- ◆ Compact and fashionable design fits in your sweet home environment
- ◆ Deliver up to 5KW with single module (2.4KWh)
- ◆ Modular design gives the end customers the power of choice of capacity
- ◆ Compatible with most of the available Hybrid inverters
- ◆ Simple buckle fixing minimize the installation time and cost
- ◆ Safety Cert.TÜV CE UN38.3 TLC



Features

Developed with our own LFP (lithium iron phosphate) cell to ensure the highest safety and most promising cycle life.

Self-designed BMS protects the cell in all angels such as abnormal temperature, current, voltage, SoC, SoH

No maintenance and easy installation saves the valuable main power.

Specifications

SPECIFICATION	BASICPARAMETERS	U48 - 50
Nominal	Nominal Voltage (V)	48
	Nominal Capacity (Ah)	50
Physical	Dimension (mm)	440*410*89
	Weight (Kg)	24
Electrical	Discharge Voltage (V)	45 ~ 54
	Charge Voltage (V)	52.5 ~ 54
	Peak Charge Power	5kW@15s
	Peak Disharge Power	5kW@15s
Others	Communication	RS232, RS485, CAN
	Working Temperature	0℃~50℃
		-10℃~50℃
	Shelf Temperature	-20℃~60℃
	Certification	TÜV / CE / UN38.3 / TLC
	Design life	10+ Years (25℃/77℉)
	Cycle Life	>6000 (25℃ 80% DoD)