

# MicroGrid PV6000

## Single Phase Hybrid Inverter



**Efficient  
Higher Revenue**

- Max. Efficiency 97.5%
- Max. PV Input Voltage 600V
- 150% Peak Output Power
- 2 MPP Trackers, 150% DC Input Oversizing
- Max. PV Input Current 16A, Compatible with High Power Modules



**Intelligent  
Simple O&M**

- IP66 Protection Degree: support outdoor installation
- Smart I-V Curve Diagnosis Function: locate PV string faults accurately and automatically detect faults
- DC & AC Type II SPD: prevent lightning damage
- Battery Reverse Connection Protection



**Flexible  
Abundant Configuration**

- Plug & Play, EPS Switching Under 10ms
- Compatible with Lead-acid and Lithium Batteries
- Max. 6 units Inverters Parallel
- AFCI Function (Optional): when an arc-fault is detected the inverter immediately stops operation

## SPECIFICATION

	MicroGrid PV6000
<b>Input (PV)</b>	
Max. PV Input Power	9kW
Max. PV Input Voltage	600V
Start-up Voltage	100V
Rated Voltage	360V
MPPT Voltage Range	100V ~ 550V
Number of MPP Trackers	2
Number of String per MPPT	1 / 1
Max. Current per MPPT	16A
Max. Short Circuit Current per MPPT	24A
<b>Output (AC)</b>	
Rated Output Power	6kVA
Max. Output Power	6kVA
Max. Output Current	27.3A
Rated Voltage	230V
Rated Frequency	50Hz / 60Hz
THDi (@Rated Power)	< 3%
Power Factor	0.8 leading ~ 0.8 lagging
<b>Output (EPS)</b>	
Max. Output Power	6kVA
Max. Output Current	27.3A
Peak Output Power, Time	7.5kW, 10s
Rated Voltage, Frequency	230V, 50Hz
THDv (@Rated Power)	< 3%
Switch Time	< 10ms
<b>Battery</b>	
Battery Type	Lithium, Lead-acid
Battery Voltage Range	40V ~ 60V
Max. Charge / Discharge Current	100A
Communication	CAN
<b>Efficiency</b>	
Max. Efficiency	97.50%
EU Efficiency	97.20%
Battery Charge / Discharge Efficiency	95.00%
<b>Protection</b>	
DC Switch	Yes
DC Reverse Polarity Protection	Yes
Anti-islanding Protection	Yes
AC Short Circuit Protection	Yes
Residual Current Monitoring	Yes
Insulation Resistance Monitoring	Yes
Ground Fault Monitoring	Yes
Over Current / Voltage Protection	Yes
Battery Soft Start Protection	Yes
Surge Protection	Type II
AFCI Protection	Optional
<b>Communication</b>	
Display	LCD
Communication	RS485 / CAN / WIFI / 4G / LAN / Bluetooth
<b>Standard Compliance</b>	
Certification	IEC/EN 62109-1/2, IEC/EN 61000-6-1/3, IEC61727/IEC62116, EN50549, CEI0-21, C10/C11, VDE4105, VDE0126, G98/99, RD244, UNE217001, UNE217002, AS4777, NRS097-2-1
<b>General Data</b>	
Dimension (W x H x D)	490 x 395 x 200 mm
Weight	20kg
Operating Temperature Range	-30°C ~ +60°C
Cooling Method	Natural
Protection Degree	IP66
Max. Operating Altitude	4000m
Noise	≤ 25dB
Relative Humidity	0~100%
Self-consumption	< 10W
Topology	High Frequency Insolation (For battery)



Sales E-mail: [sales@uticasolar.com](mailto:sales@uticasolar.com) Website: [www.uticasolar.com](http://www.uticasolar.com)

Designed and produced by UTICA® SINGAPORE

# MGB-5kWh

## Low Voltage Battery

---



### Easy Install

- Easy installation, plug and play design



### Flexible

- Flexible capacity, Max.15pcs in parallel to extend capacity



### Reliable

- Safe & reliable, Lithium Iron Phosphate (LFP) Cell



### Smart O&M

- LED Display, SOC, Battery state

## SPECIFICATION

	MGB-5kWh
<b>Battery Parameter</b>	
Battery Cell	LiFePO <sub>4</sub>
Battery Energy	5120Wh
Nominal Capacity	100Ah
Depth of Discharge	80%
Nominal Voltage	51.2V
Voltage Range	43.2Vdc ~ 56.6Vdc
Nominal Charge / Discharge Current	50A
Max. Charge/Discharge Current	100A
Dimension (W x H x D)	520 x 470 x 141.5 mm
Weight	47.2kg
Installation	Wall-mounted / Floor-standing
Temperature of Charge	0 ~ 55°C
Temperature of Discharge	-20°C ~ +60°C
Protection Degree	IP65
Parallel Units	Up to 15
Communication Port	RS485, CAN
Display	LED
Operation Humidity	5% ~ 95%
Max. Operating Altitude	2000m
Cycle Life	6000@80% DOD, 25°C , 0.5C
Certification	CE, IEC, UN38.3, MSDS



Sales E-mail: [sales@uticasolar.com](mailto:sales@uticasolar.com) Website: [www.uticasolar.com](http://www.uticasolar.com)

Designed and produced by UTICA® SINGAPORE