

# UTICA<sup>®</sup> Solar MobileGrid 3000-1600



## Flexible

- For systems from 500W to 5000W

- 1phase operation, connectable in parallel and modularly extendable

- AC and DC coupling

## Simple

- Easy commissioning with the “Quick Configuration Guide”

- Complete off & on-grid management

## Efficient

- High efficiency

- Intelligent battery management for maximum battery life

- Charge level calculation

## Robust

- Extreme overload capability

- Proactive temperature management system

- 2-year warranty

## Solar Powered Generator

UTICA<sup>®</sup> Solar MobileGrid is an off-grid solar power system that works 24-hours a day, powered by photovoltaic modules, complementing your existing energy consumption and hence, reducing electricity bills and carbon footprint.

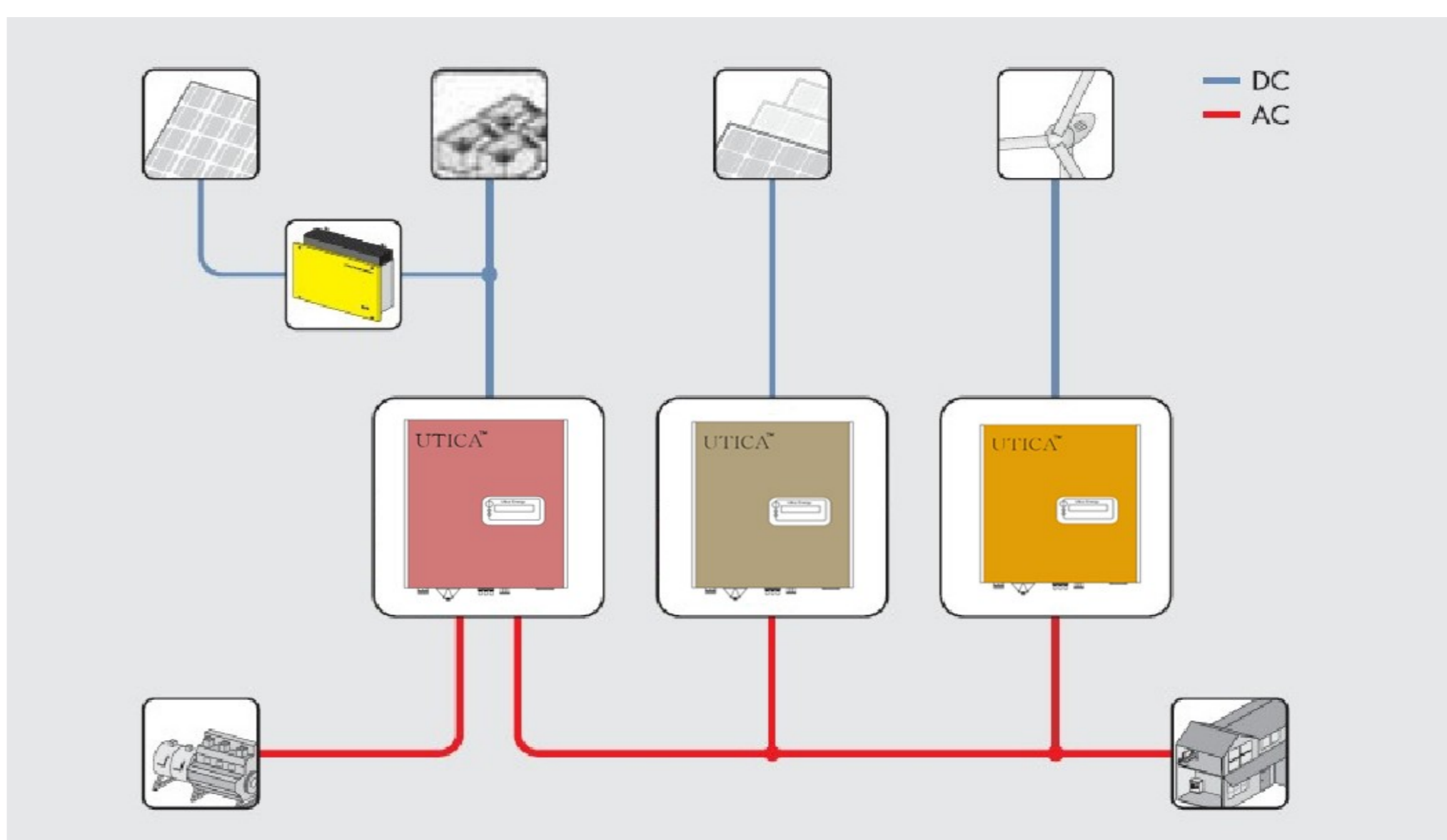
The easy deployable system makes commissioning within minutes possible. All required operational settings can be made quickly and easily in just a few steps. The UTICA<sup>®</sup> MobileGrid is powerful, extendable and takes on all control processes.

Its first-class intelligent power processing unit ensures maximum battery life. It also features impressive efficiency, a rugged metal enclosure and active cooling system. With an output rating of 230V and 50 Hz, the UTICA<sup>®</sup> MobileGrid is designed perfect for any location.

Technical Data	MobileGrid 3000-1600
<b>Solar panel</b>	
Max power	1600W
Power/day	5600WH
<b>AC output (Loads)</b>	
Nominal AC voltage (adjustable)	230V
Nominal frequency (adjustable)	50HZ
Continuous AC power at 25 °C / 45 °C (77 °F / 113 °F)	3000 W
THD output voltage / power factor (cos φ)	<5%
<b>AC input (generator or grid)</b>	
AC input voltage (range)	230V
AC input frequency (range)	50HZ
<b>Battery DC input</b>	
Battery voltage (range)	48V
Max. battery charging current / continuous charging current at 25 °C (77 °F)	120 A / 100 A
Battery type	lead-acid battery
Capacity	48V,300Ah
<b>Efficiency / operating consumption</b>	
Max. efficiency	85%
Internal consumption with no load / standby	25 W / 4 W
<b>Protection devices</b>	
DC reverse polarity protection / DC fuse	●/●
AC short-circuit / AC overload	●/●
Overtemperature / excessive battery discharge	●/●
<b>General data</b>	
Inverter Dimensions (W / H / D) in mm (in)	400*428*88
Inverter Weight	15KG
Operating temperature range	-25 °C ... +50 °C (-13 ° F ... +122 °F)
Protection rating (as per IEC 60529)	indoors
<b>Features / function</b>	
Operation & display / multifunction relays	internal / 2
3-phase systems / parallel connection	●/●
Integrated bypass / multicluster operation	—/●
Charge level calculation / full- / equalization charge	●/●/●
Integrated soft start / generator support	●/●
Battery temperature sensor / communication cables	●/●
Warranty: 2 / 5 / 10 / 15 years	●/○/○/○/○
Certificates and permits	<a href="http://www.utica.sg">www.utica.sg</a>
<b>Accessories</b>	
Battery cables / battery fuses	○/○
Interfaces (RS485 / Multicluster PB)	○/○
"GenMan" extended generator start	○
Load-shedding contactor / battery current measurement	○/○
● Standard features ○ Optional features — Not available	
Last revision: January 2013	
Remarks	System integrated controller & inverter, simply connect the solar panels and batteries to the system, the system can work, easy for use. Structure for inverter is low frequency, and that for controller is PWM.

#### UTICA PV Mobile Grid 3000 Series

- System capacity 3kVA
- Indoor system
- Generates constant Free Electricity
- UPS built-in
- Maximum power in minimum time
- Absolutely no noise
- High performance PV modules
- Surge protections
- Roof or ground-mounted solar panels
- Single air-condition, small appliances, rice cooker, color TV, refrigerator, fans and computers



Solar Off-grid System

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