



AC off-grid power systems are used to power DC appliances in boats, log cabins as well as houses when utility power is not accessible. METAL SMART supply simple, complete and plug and play solar solutions for your lighting, cooling and entertainment needs.

Product features:

- Automatic detection of SOC.
- PWM control.
- Maximum Power Point Tracking.
- Multistage charging technology.
- Load disconnection depending on SOC.
- Automatic load reconnection.
- Temperature compensation.
- Plug and play.

Electronic protection functions:

- Overcharge protection.
- Deep discharge protection.
- Reverse polarity protection of battery.
- Short circuit protection of load.
- Open circuit protection without battery.
- Reverse current protection at night
- Overtemperature and overload.

Displays:

- Graphical LCD user interface for working status, fault messages.

DASOL

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Applications

- Household lighting
- Remote areas
- Outdoor camping lighting
- Fishing boat lighting
- Emergency lighting
- Disaster lighting
- etc.

Specification:

SPECIFICATION CATEGORIES	MS05040DC	MS10065AC
System Voltage	12V	12V
Nominal Battery Voltage	12V	12V
Battery Capacity @C10	40Ah	65Ah
Solar Panel Maximum Power @STC*	50Wp	100Wp
Nominal Output Power of the Inverter	N/A	300VA
The Inverter Output Voltage	N/A	110V/220V/230V, pure sine wave
The Inverter Output Frequency	N/A	50Hz/60Hz
LEDs Lamp Output Power	7Wp	7Wp
LEDs Lamp Luminous Flux	480lm	480lm
No. of LEDs Lamps	4	4
DC Fan(optional)	15Wp/DC12V, 16"	15Wp/DC12V, 16"
LED TV(optional)	15Wp/DC12V	15Wp/DC12V
Autonomous Run Time (LEDs Lamp)	14.4 hours (Load: 4pcs 7Wp LEDs lamp)	23.4 hours (Load: 4pcs 7Wp LEDs lamp)
Lighting Hours Per Solar Day** (PV only)	7 hours (Load: 4pcs 7Wp LEDs lamp)	14 hours (Load: 4pcs 7Wp LEDs lamp)

*STC (Standard Test Condition): Irradiance 1000W/m², module temperature 25°C, AM1.5.

**Solar day @ condition: 5000Wh/m² per day.