

SANTAK® SMAX SERIES AC INVERTER

SMAX series

3000/5000



TYPICAL APPLICATIONS

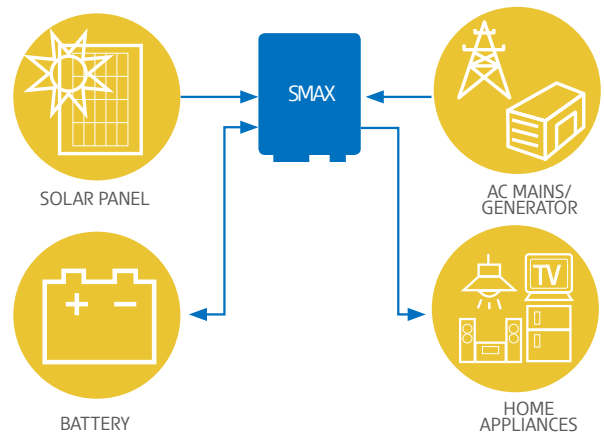
- Lamp
- Fan
- Air-conditioner
- Refrigerator
- Washing machine
- TV



 **SANTAK**

KEY FEATURE

- AC Inverter with built-in SCC (Solar Charger Controller)
- Built-in MPPT (Maximum Power Point Tracking) for optimized PV energy harvest
- Ideal energy saving solution for home applications
- Fast charging with solar power regardless the presence of AC mains
- Wide AC input voltage range to support both AC mains and generator
- Higher than 98% efficiency in line mode results in energy saving
- Configurable LCD for easy reading operational status and setting
- Wall-mounting design for space saving
- Max. operation temperature up to 50°C
- Strong charging capability for flexible battery configuration



SPECIFICATION

MODEL		SMAX 3000	SMAX 5000
CAPACITY		3000VA/2400W	5000VA/4200W
AC INPUT	Nominal Input Voltage	230V _{AC}	
	Input Voltage Range (normal range) ¹	170-280V _{AC}	
	Input Voltage Range (wide range) ¹	90-280V _{AC}	
AC OUTPUT	Nominal Output Voltage	230V _{AC}	
	Output Voltage Waveform	Pure sine wave	
	Output Voltage Regulation (Bat. Mode)	±10%	
	Output Frequency(Bat. Mode)	50Hz / 60Hz ± 1Hz	
	Max.Motor-based Loading	1.5HP	2.5HP
AC CHARGER (charged by AC mains)	Nominal Battery Voltage	24V _{DC}	48V _{DC}
	Charger Current	0A/2A/10A/20A selectable	0A/2A/10A/25A selectable
SOLAR OUTPUT	Max. Solar Charger Current	80A	
	Max. Solar Power Rating to support load	1600W	3200W
SOLAR PANEL PARAMETERS	Max. Solar Panel Array Power ²	2000W	3750W
	Max. Solar Panel Output Current	50A	
	MPPT Operating Voltage Range	30-80V _{DC}	60-150V _{DC}
	MPPT Optimal Work Voltage Range	35-70V _{DC}	70-120V _{DC}
EFFICIENCY	AC to AC	>98%	
	DC to AC	>90%	
TRANSFER TIME	Line Mode → Battery Mode	10ms (narrow range setting)	
		20ms (wide range setting)	
DISPLAY		1 x LCD	
DIMENSION	WxHxD	268 x 342 x 94 mm	394 x 436 x 118 mm
NET WEIGHT		5.7kg	10.3kg
ENVIRONMENT	Operating Temperature	0-50°C	
	Noise Level	<60dB	

Note:

1. Normal input range and wide input range can be configured via LCD.

2. The installed capacity of solar panel shall be no larger than this value.

* In the interests of continuous product improvement, all specifications are subject to change without notice.

SANTAK ELECTRONICS (SHENZHEN) CO., LTD.

Shenzhen, P.R. China

Address: No. 8 Baoshi Road, Baoan District,

Shenzhen, 518101

Tel: 0086 755 27572666

Fax: 0086 755 27572730 (27572480)

Email: Santak_int@eaton.com

Website: www.santak.com

January, 2018 EN-00011-00

