

# SH3.0/3.6/4.0/5.0/6.0RS

Residential Hybrid Single Phase Inverter

NEW



## FLEXIBLE APPLICATION

- 80~460 V wide battery voltage range
- Ideal for both retrofitting and new installations
- Built-in smart PID recovery function

## USER FRIENDLY SETUP

- Plug and play installation
- iSolarCloud monitoring available on App and Web
- Lightweight and compact, optimized for heat-dissipation

## ENERGY INDEPENDENCE

- Seamless transition to backup mode, for protection against power outages
- Fast Charging or discharging, enabling higher self-consumption results
- Built-in EMS with advanced customization

## SMART MANAGEMENT

- Real time data (10 seconds refresh sample)
- 24/7 live monitoring both online and with integrated display
- Online IV curve scan and diagnosis

Type designation	SH3.0RS	SH3.6RS	SH4.0RS	SH5.0RS	SH6.0RS
<b>Input (DC)</b>					
Recommended max. PV input power	10000 Wp	10700 Wp	11000 Wp	12000 Wp	13000 Wp
Max. PV input voltage			600 V		
Min. operating PV voltage / Start-up input voltage			40 V / 50 V		
Rated PV input voltage			360 V		
MPP voltage range			40V - 560 V		
No. of independent MPP inputs			2		
Default No. of PV strings per MPPT			1		
Max. PV input current			32 A (16 A/16 A)		
Max. DC short-circuit current			40 A (20 A/20 A)		
<b>Input / Output (AC)</b>					
Max. AC input power from grid	10000 VA	10700 VA	11000 VA	12000 VA	13000 VA
Rated AC output power	3000 W	3680 W	4000 W	5000 W*	6000 W
Max. AC output power	3000 VA	3680 VA	4000 VA	5000 VA*	6000 VA
Rated AC output current (at 230 V)	13.1 A	16 A	17.4 A	21.8 A**	26.1 A
Max. AC output current	13.7 A	16 A	18.2 A	22.8 A**	27.3 A
Rated AC voltage			220 / 230 / 240 V		
AC voltage range			154 V - 276 V		
Rated grid frequency /			50 Hz / 45 - 55 Hz		
Grid frequency range			60 Hz / 55 - 65 Hz		
Harmonic (THD)			<3% (of rated power)		
Power factor at rated power /			>0.99 at default value at rated power		
Adjustable power factor			(adj. 0.8 overexcited/leading to 0.8 underexcited/lagging)		
Feed-in phases / connection phases			1 / 1		
<b>Efficiency</b>					
Max. efficiency / European efficiency	97.4% / 97.0%	97.5% / 97.1%	97.6% / 97.2%	97.7% / 97.3%	97.7% / 97.3%
<b>Protection &amp; Function</b>					
Grid monitoring			Yes		
DC reverse polarity protection			Yes		
AC short circuit protection			Yes		
Leakage current protection			Yes		
Surge Protection			DC Type II / AC Type II		
DC switch(solar)			Yes		
DC fuse(battery)			Yes		
PID recovery function			Yes		
Battery input reverse polarity protection			Yes		
<b>Battery Data</b>					
Battery type			Li-ion battery		
Battery voltage			80 V - 460 V		
Max charge / discharge current			30 A / 30 A		
Max charge / discharge power			6600 W		
<b>General Data</b>					
Dimensions (W * H * D)			490 * 340 * 170 mm		
Weight			18.5 kg		
Mounting method			Wall-mounting bracket		
Topology (Solar / Battery)			Transformerless / Transformerless		
Degree of protection			IP65		
Operating ambient temperature range			-25 °C to 60 °C		
Allowable relative humidity range			0% - 100%		
Cooling method			Natural convection		
Max. operating altitude			4000 m		
Display			LED digital display & LED indicator		
Communication			RS485 / Ethernet / WLAN / CAN		
DI / DO			DI * 4 / DO * 1 / DRM		
DC connection type			MC4 (PV) / Sunclix (Battery)		
AC connection type			Plug and Play		
Grid compliance			IEC/EN 62109-1, IEC/EN 62109-2, IEC/EN 61000-3-11, IEC/EN 61000-3-12, EN 62477-1, AS/NZS 4777.2, EN 50549-1, CEI 0-21, G98 / G99		
<b>Backup Data (on grid mode)</b>					
Rated output power for backup load			6000 W		
Rated output current for backup load			27.3 A		
<b>Backup Data (off-grid mode)</b>					
Rated voltage			220 V / 230 V / 240 V (±2%)		
Frequency range			50 Hz / 60 Hz (±0.2%)		
Total output THDv for linear load			< 2%		
Switch time to emergency mode			< 10 ms		
Rated output power	3000 W / 3000 VA	3680 W / 3680 VA	4000 W / 4000 VA	5000 W / 5000 VA	6000 W / 6000 VA
Peak output power			8400 VA, 10s		



## Duże RABATY na MEGAWATY

Szukasz niezawodnych komponentów PV w najlepszej cenie? Skorzystaj z oferty: Duże RABATY na MEGAWATY w Energynat, bo im więcej kupujesz, tym więcej zyskujesz.

Masz pytanie? Zadzwoń: 22 245 40 64  
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Dowiedz się więcej o falownikach marki SUNGROW  
Najlepsze ceny zawsze na [www.energynat.trade](http://www.energynat.trade)