

# SH8.0 - 10RS

Residential Hybrid Single Phase Inverter

AU



## FLEXIBLE APPLICATION

- 200%DC/AC PV input 16A\*4MPPTs
- Ideal for both new installation and retrofit scenario
- Built-in smart PID recovery function



## 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



## 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



## USER FRIENDLY

- Plug and play installation
- iSolarCloud monitoring available on App and Web
- whole home backup available



Type designation	SH8.0RS	SH10RS
<b>Input ( DC )</b>		
Recommended max. PV input power	16000 Wp	20000 Wp
Max. PV input voltage	600 V	
Min. PV input voltage / Startup input voltage	40 V / 50 V	
Rated PV input voltage	360 V	
MPP voltage range	40 V – 560 V	
No. of independent MPP inputs	4	
No. of PV strings per MPPT	1/1/1/1	1/1/1/1
Max. PV input current	64 A (16 A / 16 A / 16 A / 16 A)	
Max. DC short-circuit current	80 A (20 A / 20 A / 20 A / 20 A)	
Max. current for input connector	20 A	
<b>Battery data</b>		
Battery type	Li-ion battery	
Battery voltage range	80 V – 460 V	
Max. charge / discharge current	50 A* / 50 A*	
Max. charge / discharge power	10000 W / 10000 W	
<b>Input and Output ( AC )</b>		
Max. AC power from grid	14500 VA	
Rated AC output power	8000 W	9999 W
Max. AC output apparent power	8000 VA	9999 VA
Max. AC output current	36.4 A	45.5 A
Rated AC voltage	1 / N / PE, 220 V / 230 V / 240V	
AC voltage range	154 V – 276 V	
Rated grid frequency	50 Hz / 60Hz	
Grid frequency range	45 Hz – 55 Hz / 55 Hz – 65 Hz	
Harmonic ( THD )	< 3 % ( at rated power )	
Power factor at rated power / Adjustable power factor	> 0.99 / 0.8 leading – 0.8 lagging	
Feed-in phases / connection phases	1 / 1-N-PE	
<b>Backup data ( on grid mode )</b>		
Rated output power for backup load	14500 W	
Rated output current for backup load	63 A	
<b>Backup data( off-grid mode )</b>		
Rated voltage	1 / N / PE, 220 V / 230 V / 240V ( ± 2 % )	
Rated grid frequency	50 Hz / 60Hz ( ± 2 % )	
Output voltage harmonic ( THD )	< 2 %	
Switch time to emergency mode	< 10 ms	
Rated output power	8000 W / 8000 VA	9999 W / 9999 VA
Peak output power	13680 VA, 10 s	
<b>Efficiency</b>		
Max. efficiency / European efficiency	97.4 % / 96.8 %	97.5 % / 97.1 %
<b>Protection &amp; Function</b>		
Grid monitoring	Yes	
DC reverse polarity protection	Yes	
AC short - circuit protection	Yes	
Leakage current protection	Yes	
DC switch (solar)	Yes	
Surge protection	DC type II / AC type II	
PID Zero	Yes	
Parallel operation on grid port / Max. No of inverters	3	
Battery input reverse polarity protection	Yes	
AFCI	Yes	
IV scan and diagnosis	Yes	
<b>General data</b>		
Topology ( solar / battery )	Transformerless / Transformerless	
Degree of protection	IP65	
Dimensions ( W * H * D )	605 mm * 435 mm * 181 mm	
Weight	29 kg	
Mounting method	Wall-mounting bracket	



Type designation	SH8.0RS	SH10RS
Operating ambient temperature range	- 25 °C – 60 °C	
Allowable relative humidity range ( non-condensing )	0 % – 100 %	
Cooling method	Natural cooling	
Max. operating altitude	4000 m	
Noise ( typical )	45 dB ( A )	
Display	LED digital display and LED indicator	
Communication	RS485, WLAN, Ethernet, CAN	
DI / DO	DI * 1 / DO * 2 / DRM	
DC connection type	MC4 ( PV ) / Plug and play connector ( battery )	
AC connection type	Plug and play connector	
Grid compliance	IEC 62109-1:2010, IEC 62109-2, IEC 62477-1, IEC61000-6-1/-2/-3/-4, IEC62920, EN55011, CISPR 11, AS/NZS 4777.2:2020	
Country of manufacture	China	

\* Depending on the connected battery

