

SH3.6/4.6/5.0/6.0RS **New**

Residential Hybrid Single Phase Inverter



FLEXIBLE APPLICATION

- 80~550V wide battery voltage range
- Supports parallel connection with full communication between inverters

ENERGY INDEPENDENCE

- Seamless transition to backup mode for protection against power outages
- Fast charging/discharging to meet the demand of higher consumption and

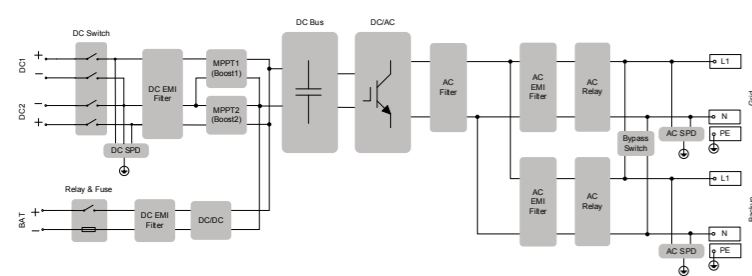
SMART MANAGEMENT

- High self-consumption with optimised built-in EMS
- Free online monitoring to enhance energy management for end user, installer and retailer
- Remote firmware update and customisable settings

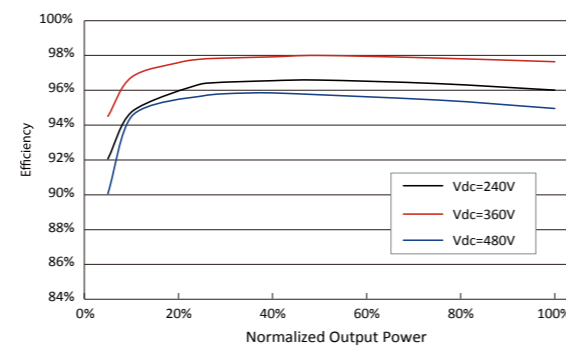
EASY INSTALLATION

- Touch free commissioning with smartphone
- Lightweight and compact

CIRCUIT DIAGRAM



EFFICIENCY CURVE (SH10RT)



Type designation	SH3.6RS	SH4.6RS	SH5.0RS	SH6.0RS
PV Input Side Data				
Max. PV input power	5500 W	6600 W	6600 W	8000 W
Max. PV input voltage			600 V	
Startup voltage			120 V	
Nominal input voltage			350 V	
MPP voltage range			90 V – 560 V	
MPP voltage range for nominal power	155 V – 520 V	195 V – 520 V	215 V – 520 V	250 V – 520 V
No. of MPPTs			2	
Max. number of PV strings per MPPT			1 / 1	
Max. PV input current			25 A (12.5 A / 12.5 A)	
Max. current for input connector			16 A	
Short-circuit current of PV input			32 A (16 A / 16 A)	
AC Input and Output Data				
Nominal AC output power	3680W	4600W	5000W	6000W
Nominal AC output current	16A	20A	21.7A	26.1A
Max. AC output apparent power	3680VA	4600VA	5000VA	6000VA
Max. AC output current	16A	21A	21.7A	27.3A
Nominal AC voltage			220/230/240Vac	
AC voltage range			176~276Vac (this may vary with grid standards)	
Nominal grid frequency			50Hz/60Hz	
Grid frequency range			45~55Hz/55~65Hz (this may vary with grid standards)	
THD			<3 % (of nominal power)	
DC current injection			<0.5 % (of nominal current)	
Power factor	>0.99 at default value at nominal power (adj. 0.8 overexcited/leading to 0.8 underexcited/lagging)			
Protection				
Anti-islanding protection			Yes	
AC short circuit protection			Yes	
Leakage current protection			Yes	
DC switch(solar)			Yes	
DC fuse(battery)			Yes	
Overvoltage Category			III [MAINS], II [PV] [BATTERY]	
Overvoltage Protection			DC Type II / AC Type II	
Battery Data				
Battery type			Li-ion battery	
Battery voltage			80V-550V	
Max charge / discharge current			25A/25A	
Max charge / discharge power			6600W	
System Data				
Max. European efficiency	> 97.1 %	> 97.3 %	97.3%	> 97.3 %
Max. charge / discharge efficiency			98.5%	
Isolation method (solar/battery)			Transformerless/Transformerless	
Ingress protection rating			IP65	
Operating ambient temperature range			-25 °C~60 °C (>45 °C derating)	
Allowable relative humidity range			0%~100%	
Cooling method			Natural convection	
Max. operating altitude			4000m (>2000m derating)	
Noise			<30dB	
Display			LED, Graphic LCD	
Communication			RS485, Wi-Fi, Ethernet / 1 × Digital Output	
DC connection type			MC4 (PV) / Sunclix (Battery)	
AC connection type			Spring-cage terminal	
Mechanical Data				
Dimensions (W * H * D)			460 mm * 543 mm * 163 mm	
Mounting method			Wall-mounting bracket	
Weight			20 kg	
Backup Data				
Nominal voltage			220Vac/230Vac/240Vac (±2%)	
Frequency range			50Hz/60Hz (±0.2%)	
Total harmonic factor output voltage			2% (full resistive load)	
Switch time to emergency mode			<20ms	
Nominal output power	3680W/3680VA	4600W/4600VA	5000W/5000VA	6000W/6000VA
Nominal output current	16.8A	21A	21.7A	27.3A
Peak output power	6000W/6000VA , continuous6600VA , 10s	6000W/6000VA , continuous6600VA , 10s	6000W/6000VA , continuous6600VA , 10s	6000VA , 10s
Peak output current			28.7A	
Max. parallel connection units			Yes	