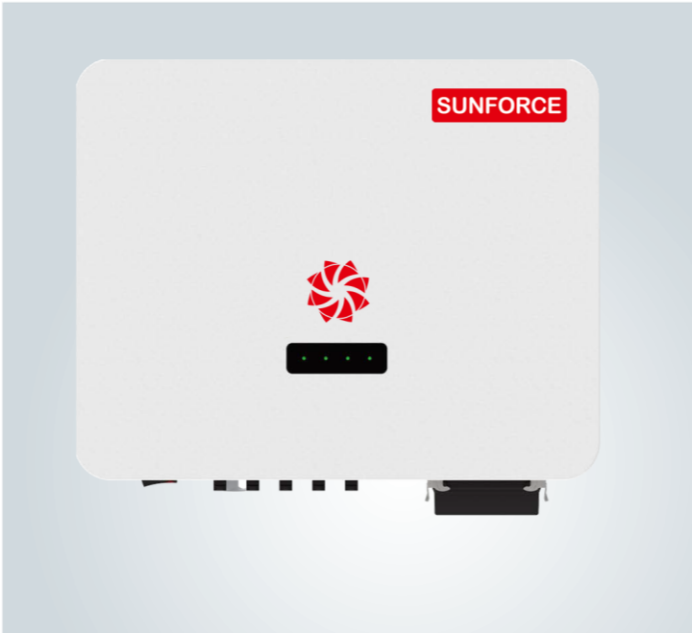
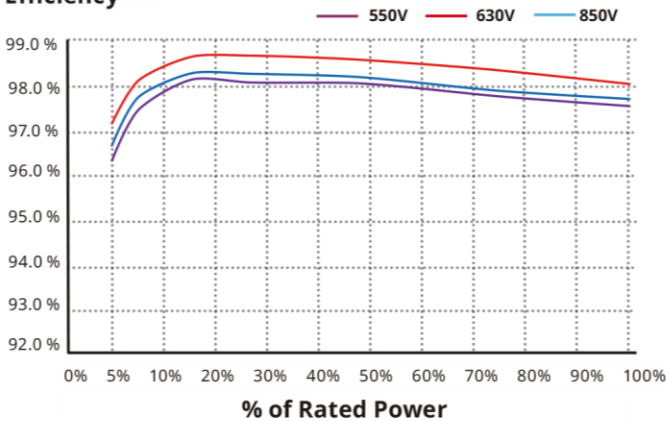


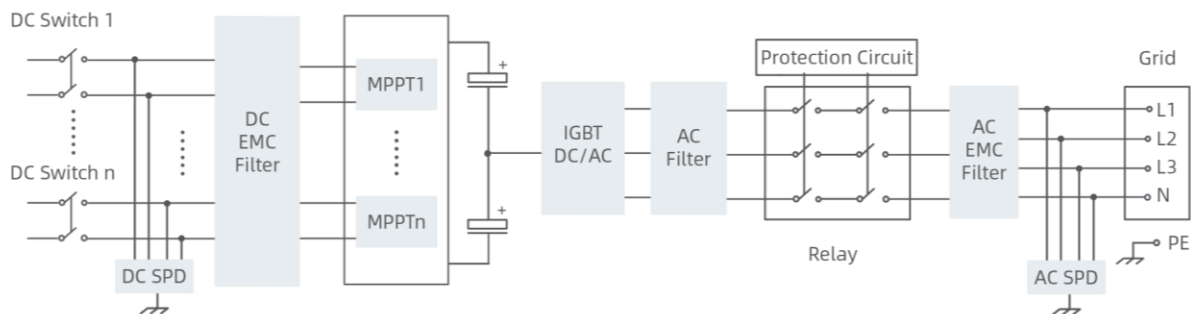
SUNFORCE GRID INVERTER SF-ATS MODEL



EFFICIENCY CURVE
SF-ATS 40kW-50kW-60kW
Efficiency



Topological Graph



SUNFORCE's grid-tied, transformer-less string inverters help to accelerate the use of three-phase string architecture for industrial and commercial rooftop applications. These inverters are modular design building blocks that provide high yield and enable significant BoS cost savings. They provide up to 98.7% conversion efficiency, a wide operating range of 200-1000 V_{DC}, and multi choice MPPTs for maximum energy harvesting.

KEY FEATURES

- Maximum efficiency of 98.7%, Maximum EU efficiency of 98.3%
- Multiplex MPPTs design for complex application scenarios
- 15A input supports multiple high-power modules
- Integrated DC Switches
- Smart string monitoring
- Integrated anti-PID function (Optional)
- Supports aluminum cable

HIGH RELIABILITY

- Intelligent fan-cooling
- SPD Type II for DC and AC
- Leakage current suppression technology
- DC reverse polarity protection

BROAD ADAPTIBILITY

- IP66 protection for harsh environment
- Utility interactive controls: Active power derating, reactive power control and over frequency derating
- Wide MPPT range for flexible string sizing

SUNFORCE GRID INVERTER SF-ATS MODEL

Technical Parameters

Model		SF-ATS 40kW-3	SF-ATS 50kW-4	SF-ATS 60kW-6
DC Input	Max. DC Voltage	1100V		
	Starting Voltage	195V		
	Rated Input Voltage	200 - 1000V		
	MPPT Range Full Load	600V		
	Max Current / MPPT	3 × 30A	4 × 30A	5 × 30A
	Max. short-circuit current	3 × 40A	4 × 40A	5 × 40A
	Number of DC Inputs	3 × 2	4 × 2	5 × 2
	MPPT Number	3	4	5
AC Output	Rated Output Power	40kW	50kW	60kW
	Max. Ac Output Power (Apparent)	40kVA	50kVA	60kVA
	Rated Output Voltage	380 / 400 V _{AC} - 3 L / N / PE		
	Max. Output Current	60.8A	76A	91.2A
	Rated Grid Frequency	50Hz / 60Hz		
	Power Factor	0.8 (Leading)~0.8(Lagging)		
	THD	<3%		
System Parameters	Max. Efficiency	98.7 %		
	European Efficiency	98.3 %		
	AC/DC SPD	DC SPD Type II / AC SPD Type II		
	DC Switch	Yes		
	DC Revers-Polarity Protection	Yes		
	DC Insulation Resistance Detection	Yes		
	Residual Current Monitoring	Yes		
	String Monitoring	Yes		
	AC Short Circuit Protection	Yes		
	Grid Monitoring	Yes		
	Anti-PID Module	Optional		
	Overvoltage Class	II (DC) - III (AC)		
	Zero Export Solution	Supported		
	Cooling System	Smart Air Cooling		
	Operating Temperature	-30 °C to +60 °C		
	Protection Degree	IP66		
	Operating Humidity	0 - 100 % Non-condensing		
	Topology	Transformerless		
	Operating Altitude	4000m (Derating above 3000m)		
	Display	LED Indicator + APP		
	Communication	RS485 / WiFi / GPRS/ 4G		
	DC & AC Terminator	DC:MC4 AC:OT		
	Certification	EN50549-1 / IEC62109 / IEC61000 / IEC62116 / IEC61727 / CQC		
	Optional	WiFi&GPRS&4G Module		
Mechanical Parameters	Dimensions (W*H*D)	720*555*288mm		
	Weight	48kg	50kg	51kg

the specifications and key features contained in thus datasheet may deviated slightly from our actual products due to the on-going innovation and product enhancement. GLOBAL SUNFORCE LIMITED CO. reserves the right to make necessary adjustment to the information described herein at any time without notice.