UPDATED

HUAWEI

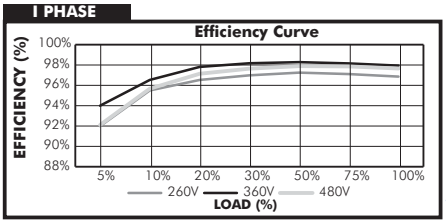
SUN2000 SERIES

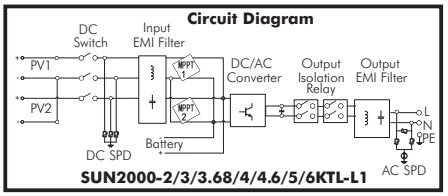
Smart Grid Solar PV Inverters

SUN2000-L1 (1PH)

SUN2000-M (3PH)

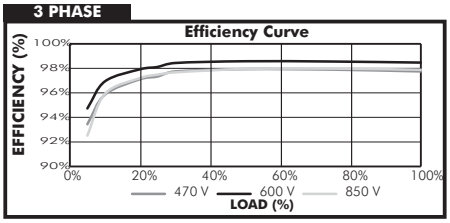
1 PHASE

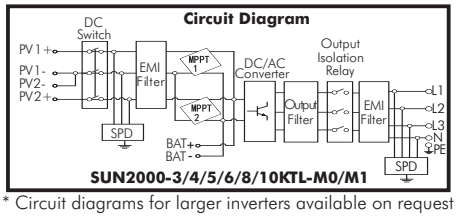




SUN2000-2/3/3.68/4/4.6/5/6KTL-L1

3 PHASE





SUN2000-3/4/5/6/8/10KTL-M0/M1

* Circuit diagrams for larger inverters available on request

HUAWEI SUN Series Smart String Grid Connect Inverters are of transformerless design for the management of hybrid solar powered PV/AC mains power supply installations. The inverters convert the PV generated DC power to AC, either single or three phase depending on model, and feed to the applied load prioritizing the PV output, supplementing with AC mains power if there is insufficient PV generated output. Inverters are fitted with MPPT trackers to optimise output efficiency and they are designed to be connected in parallel each fed from dedicated solar arrays that can provide power outputs of limitless size. WIFI monitoring devices and Huawei Smartlogger are also provided for monitoring and controlling the power to the grid. Particular features include:-

- Up to 12 MPPT Trackers
- 99.0% maximum efficiency
- 1-phase and 3-phase inverters up to 10kW come with a battery interface for back-up power and are compatible with Huawei Smart ESS (LiFEPO4) Battery 5kWh – 30kWh
- MBUS Supported - a communication protocol used between meters and the central data collection system or Pre-Payment unit.
- Fuse free design with AC over current, undervoltage, short-circuit and DC/AC Surge protection
- Provided with Anti-Islanding and DC reverse polarity protection and Insulation Monitoring
- EN/IEC 62109-1, EN/IEC 62109-2, IEC 62116 Certifications.

The following additional accessories are available as options:-

HUAWEI Smart Logger 3000A with MBUS communication: The Huawei Smart Logger 3000A is dedicated to monitoring and managing a PV power generating system. It can connect to 80 devices >40kW and centrally monitors information regarding connected solar modules and inverters. Works as export limiter with SmartPower Sensor and other 3rd party meters

Smart Dongle-WLAN_FE: WLAN & Fast Ethernet (FE) communication Module that supports Huawei Inverters and serves as export limiter with SmartPower Sensor. Can be connected to upto 10No. devices <40kW

HUAWEI SUN Inverters incorporate the latest technologies for optimal PV power generation providing highly efficient, safe & reliable installations with smart operating and grid supporting capabilities that optimizes solar energy utilization in Residential, Commercial and Industrial applications.

TECHNICAL SPECIFICATIONS

Enclosure Class: IP65

Operating Temp Range: -25°to + 60°C

Night time Power Consumption: <5.5W

Model	SUN 2000 3KTL-L1	SUN 2000 3KTL-M1	SUN 2000 5KTL-M1	SUN 2000 10KTL-M1	SUN 2000 15KTL-M5	SUN 2000 20KTL-M5	SUN 2000 30KTL-M3	SUN 2000 36KTL-M3	SUN 2000 50KTL-M3	SUN 2000 60KTL-M0	SUN 2000 100KTL-M2	SUN 2000 115KTL-M2	SUN 2000 330KTL-HI
Max. Output & Rated Output Power	3,300	3,300	5,500	10,000	15,000	20,000	30,000	36,000	50,000	60,000	100,000	115,000	330,000
Input AC Voltage, VAC	1x240	3x415											
Max. PV Input Power, W	4,500	4,500	7,500	15,000	22,500	30,000	N/A						
Max. PV Input Voltage, VDC	600	1,100			1,080		1,100						1,500
Operating Voltage Range,VDC	90-560	140-980			160-950		200-1000						500 -1500
Rated Input Voltage, VDC	360	600								600@420Vac, 720@480Vac			1080
Start Voltage,VDC	100	200											550
Number of MPPT Inputs	2						8		12		10		6
Maximum Input Current per MPPT, A	12.5	11			22		26		22		26	30	65
Maximum Output Current, A	15	5.1	8.5	16.9	25.2	33.5	43.3	52	72.2A @400V	95.3A @400V	160.4A @400V	160.0A @400V	216.6A
Rated Output Voltage, Vac	240V	230Vac/400Vac,3W/N+PE									400V/480V, 3W+(N)+PE		800V3W +PE
Backup Power Output	Yes, via Back-up Box				N/A								
Peak Efficiency, %	97.3	98.3	98.1	98.2	98.3		98.7				98.6		99
Dimensions (DxWxH)mm	365x365 x156	525x470x146.5			525x470x262		640x530x270		1075x555x300		1035x700x365		1048x 732x395
Net Weight,Kgs	12	17			25		43		74		90	93	112