

SUNSATHI

On Grid | Hybrid Inverter Manufacturer



Low Voltage Hybrid Inverter

3/3.6/4/5/6/6.6/7/7.5/8kw - Single Phase



20A Max. PV Input Current



<10ms Transfer Time



Supports diesel generator & smart load integration

Model	Suns-LV-3kw	Suns-LV-3.6kw	Suns-LV-4kw	Suns-LV-5kw	Suns-LV-6kw	Suns-LV-6.6kw	Suns-LV-7kw	Suns-LV-7.5kw	Suns-LV-8kw
PV Input									
Max. PV Access Power [Wp]	6000	7200	8000	10000	12000	13200	14000	15000	16000
Max. PV Input Power [W]	4800	5760	6400	8000	9600	10560	11200	12000	12800
Max. PV Input Voltage [V]	500								
MPPT Voltage Range [V]	90 ~ 450								
Rated PV Input Voltage [V]	300								
Start-up Voltage [V]	120								
No. of MPP Trackers	2								
No. of Input Strings per Tracker	1/1						2 / 2		
Max. PV Input Current [A]	20/20						40 / 40		
Max. Short-circuit Current [A]	25/25						50 / 50		
AC Output									
Max. AC Output Apparent Power [VA]	3300	3960	4400	5500	6600	7260	7700	8250	8800
Rated AC Output Power [W]	3000	3600	4000	5000	6000	6600	7000	7500	8000
Max. AC Output Current [A]	15/14.3	18/17.2	20/19.1	25/24	30/28.7	33/31.6	35/33.5	37.5/35.9	40/38.3
Rated AC Output Current [A]	13.6/13	16.4/15.7	18.2/17.4	22.8/21.8	27.3/26.1	30/28.7	31.8/30.4	34.1/32.6	36.4/34.8
Rated AC Voltage [V]	L / N / PE, 220 , 230								
Grid Frequency [Hz]	50 / 60								
Adjustable Power Factor [cosφ]	0.8 leading ~ 0.8 lagging								
Output THDi (@Rated Output)	< 3%								
AC Input									
Max. AC input apparent power[VA]	6000	7200	8000	10000	12000	13200	14000	15000	16000
Max. AC input current[A]	27.2/26.1	32.7/31.3	36.4/34.8	45.5/43.5	54.5/52.2	60/57.4	63.6/60.9	68.2/65.2	72.7/69.6
Rated AC Voltage [V]	L / N / PE, 220 , 230								
Grid Frequency [Hz]	50 / 60								
Battery									
Battery Type	Lead-acid/Lithium-ion								
Battery Voltage Range [V]	40 ~ 60								
Max. Charging / Discharging Current [A]	70	90	100	100	120	145	175	190	190
Communication Interface	CAN								
Backup Output (With Battery)									
Rated Output Power [W]	3000	3600	4000	5000	6000	6600	7000	7500	8000
Rated Output Voltage [V]	L / N / PE, 220 , 230								
Rated Frequency [Hz]	50 / 60								
Rated Output Current [A]	13.6/13	16.4/15.7	18.2/17.4	22.8/21.8	27.3/26.1	30/28.7	31.8/30.4	34.1/32.6	36.4/34.8
Output THDv (@Liner Load)	< 3%								
Automatic Switch Time [ms]	< 10								
Peak Apparent Power, Duration [VA, s]	1.5 times of rated power,10s								
Efficiency									
Max. Efficiency	97.6%								
Euro Efficiency	97.0%								
MPPT Efficiency	>99%								
Protection									
DC Insulation Monitoring	Integrated								
Input Reverse Polarity Protection	Integrated								
Anti-island Protection	Integrated								
Residual Current Monitoring	Integrated								
Over-heat Protection	Integrated								
AC Overcurrent Protection	Integrated								
AC Overvoltage Protection	Integrated								
AC Short-circuit Protection	Integrated								
DC Surge Protection	Integrated (Type II)								
AC Surge Protection	Integrated (Type II)								
DC Switch	Integrated								
AFCI Protection	Optional								
General Data									
Num. of Parallel [units]	1 ~ 6								
Dimensions (W * H * D) [mm]	598 * 364 * 246.5								
Weight [kg]	28								
Display	OLED + LCD								
Communication	RS485, CAN, Dry contact, Optional: WiFi or 4G or Ethernet								
Ambient Temperature Range [°C]	-30 - +65 °C (Derating Above 65°C)								
Relative Humidity	0 ~ 100%								
Operating Altitude [m]	< 3000								
Standby Self-consumption [W]	< 15								
Topology	Non-isolated								
Cooling	Natural		Natural		Fan				
Noise [dB]	<30		<30		<50				
Ingress Protection	IP66								
Warranty	10 Years Standard Warranty								
Certifications & Standards									
Grid Regulation	IEC 61727, IEC 62116, PEA, MEA								
Safety Regulation	IEC 62109-1, IEC 62109-2								
EMC	EN IEC 61000-6-1, EN IEC 61000-6-3,EN 62920								