



SINGLE-PHASE HYBRID/AC INVERTER STAR-H1-3.7/6.0-E

SINGLE-PHASE

HYBRID/AC INVERTER

Unlock the boundless potential of solar energy with the revolutionary Hybrid & AC inverters by NGEN. Our advanced line of hybrid inverters is characterized by outstanding performance, flexibility and efficiency, and is optimized for use with our own high-voltage battery set.



Easy installation

Flexible configuration, quick and easy installation, integrated safety and protection devices.



EASY INSTALLATION

Remote Monitoring

The hybrid inverter can be monitored via the user-friendly smartphone app or the Web application from SG Connect.



REMOTE MONITORING

IIntegrated Emergency Power Function

Thanks to the integrated emergency power function (Single-Phase) the inverter automatically switches to emergency power mode in the event of a grid failure (20 ms) and selected loads in the household are supplied with energy via the photovoltaic system or the NGEN-STAR battery.



INTEGRATED EPS-FUNCTION

Smart heat pumps

"Smart Grid Ready" signifies that heat pumps communicate intelligently with the power grid through the Synaptic, sourcing energy at the most opportune time. This results in reduced energy costs and environmentally friendly operation of the heat pump.



HEAT

Protection class IP65

The inverter is suitable for outdoor installation. However, it is mandatory to protect it from the weather.



IP65 RATED

MODULARE SYSTEM- BATTERY STORAGE

The NGEN-STAR-H1 hybrid inverter series offers you the option of adapting storage capacities even more flexibly. The battery storage system can be expanded to a maximum capacity of 41,9 kWh using the plug & play principle.



Model	STAR-H1-3.7-E	STAR-H1-6.0-E	
NPUT PV (only for hybrid)			
Лах. Input Power [W]	5500	9000	
Max. Input Power per MPP Tracker [W]	2750/2750	4500/4500	
Max. Input Voltage [V]	600		
Max. Input Current [A]	16 / 16		
Max. Short-circuit Current [A]	20	20 / 20	
Start-up Input Voltage [V]	7	75	
MPPT Voltage Range [V]	80 -	80 - 550	
No. of Independent MPP Trackers	:	2	
No. of Strings per MPP Tracker		1	
AC INPUT AND OUTPUT (GRID)			
Max. AC Input Power [VA]	7680	12000	
Max. AC Input Current (per phase) [A]	34.9	54.5	
Rated Output Power [W]	3680	6000	
Max. Output Apparent Power [VA]	4048	6600	
Rated Output Current (per phase) [A]	16.7	27.3	
Max. Output Current (per phase) [A]	18.4	30.0	
Rated Grid Voltage [V]	220/230/240		
Rated Grid Frequency [Hz]	50/60		
Power Factor	1 (Adjustable from 0.8 leading to 0.8 lagging)		
PS OUTPUT (WITH BATTERY)			
Max. Output Apparent Power [VA]	3680	6000	
Peak Output Apparent Power (60s) [VA]	4400	7200	
Max. Output Current [A]	16.7	27.3	
Power Factor	1 (Adjustable from 0.8	leading to 0.8 lagging)	
FFICIENCY			
Max. Efficiency [%]		.08	
Euro Efficiency [%]	95.7	96.33	
GENERAL DATA			
Dimensions (WxHxD) [mm]	434*418*185		
Weight [kg]	22		
nstallation	Wall-Mounted		
Cooling Method	Natural		
Noise Emission [db]	35		
Max. Operating Altitude [m]	2000		
Operating Temperature Range [°C]	from -25 to +60		
Humidity (No Condensation) [%]	0 to 100		
Protection Degree		IP65	
Warranty	Standard 10 / Advanced 12 *		
Monitoring Module	WiFi, LAN, 4G, GPRS (Optional)		
	2*RS485,	DRM, Ripple Control, USB	
Communication			
STANDARD COMPLIANCE (MORE AVAI	·		
STANDARD COMPLIANCE (MORE AVAII Safety	EN 6	52109-1, EN 62109-2	
TANDARD COMPLIANCE (MORE AVAI	EN 6	000-6-2, IEC 61000-6-3	



 $[\]mbox{*}$ Standard Warranty: 10 years / Advanced Warranty: 12 years when the System is connected to the SG Connect System Solution.