



BATTERY STORAGE OF THE NEXT GENERATION

NGEN HIGH VOLTAGE BATTERY

STAR QUBE is the latest generation of an integrated residential energy storage systems, modular designed to meet various installation scenarios. Its plug-and-play setup ensures easy installation, while the robust IP66-rated housing makes it suitable for both indoor and outdoor use. The system offers long-term reliability and flexibility, with remote monitoring available through a smartphone app or web portal for real-time insights into energy usage.



- Hybrid PV Input Up to 22kW PV-Power
- LFP Battery, Scalable up to 30kWh
- LRA Up to 110A
- Multiple Energy Operation Modes
- Built-In Fire Suppression
- Battery Warm Up Technology



REMOTE
MONITORING



EASY
INSTALLATION



10 YEAR
WARRANTY



HIGH
EFFICIENCY



90% DEPTH
OF DISCHARGE

Model		STAR-					
		PQ-3.7-H PQ-3.7-A	PQ-5.0-H PQ-5.0-A	PQ-6.0-H PQ-6.0-A	PQ-7.0-H PQ-7.0-A	PQ-9.0-H PQ-9.0-A	PQ-11.0-H PQ-11.0-A
INPUT PV							
Max. Solar STC Power [W]		7400	10000	12000	14000	18000	22000
Max. Input Power [W]		5500	7500	9000	10500	13500	16500
Nominal DC Voltage [V]		360					
Max. DC Voltage [V]		600					
System Startup Voltage [V]		75					
MPPT Voltage Range [V]		80 ~ 500					
MPPT Voltage Range [V] (Full Load)		116 ~ 500	156 ~ 500	188 ~ 500	219 ~ 500	211 ~ 500	258 ~ 500
Max. PV Input Current per MPPT [A]		32/16		32/16/16			
No. of MPPT		2		3			
Strings per MPPT		2/1		2/1/1			
OUTPUT AC							
Nominal AC Power [W]		3680	5000	6000	7000	9000	11000
Max. AC Apparent Power [VA]		3680	5000	6000	7000	9000	11000
Nominal AC Output Voltage [V]		220/230/240					
AC Voltage Range [V]		180 ~ 270					
Nominal AC Output Current [A]		16.0	22.7	27.3	31.8	40.9	50.0
Max. AC Output Current [A]		16.0	22.7	27.3	31.8	40.9	50.0
Nominal AC Output Frequency [Hz]		50/60					
Operating AC Frequency Range [Hz]		45 ~ 65					
Output Power Factor		>0.99 (0.8 leading ~ 0.8 lagging)					
INPUT AC							
Max. AC Input Power [W]		4440	6000	7200	8400	10800	13200
Max. AC Input Current [A]		20.2	27.3	32.7	38.2	49.1	60.0
Rated Grid Voltage (AC Voltage Range) [V]		220/230/240 (180 ~ 270)					
Rated Grid Frequency [Hz]		50/60					
EPS OUTPUT (WITH BATTERY)							
Rated Output Power [W]		3680	5000	6000	7000	9000	11000
Max. Apparent Output Power [VA]		3680	5500	6600	7700	9900	12100
Peak Output Power For 60 Sec. [W]		4995	6750	8100	9450	12150	14850
Max. Continuous AC Output Current [A]		16.0	25.0	30.0	35.0	45.0	55.0
Nominal AC Output Frequency [Hz]		50/60					
Rated Output Power @Different Batteries [W]	2 Batteries	3680	5000	5760	5760	5760	5760
	3 Batteries	3680	5000	6000	7000	8640	8640
	4 Batteries	3680	5000	6000	7000	9000	11000
	5-7 Batteries	3680	5000	6000	7000	9000	11000
BATTERY							
Battery Type		LFP					
Nominal Battery Voltage [V]		360					
Max. Continuous Charge/Discharge Power [W]		5550/4070	7500/5500	9000/6600	10500/7700	13500/9900	16500/12100
Compatible Batteries		NGEN-Star Battery 4300 (2-7 Battery Units) and NGEN-Star Battery 4800 (2-7 Battery Units)					
GENERAL DATA							
Dimensions (W*H*D) [mm]		570*512*380					
Weight [kg]		51					
Operation Temperature Range [°C]		from -25 to +60 (Derating Above 49)					
Relative Humidity [%]		0 ~ 100, non-condensing					
Typical Noise Emission [dB]		<35					
Max. Operation Altitude [m]		3000 (> 2000 Derating)					
Cooling Method		Natural convection					
Safety/EMC		IEC62619 / IEC62477 / EC61000 / UN38.3					
HMI							
Communication Interface		CAN2.0, RS485, Meter, CT, ISO alarm, SUNSPEC(modbus)					