

- SUPPORT MULTIPLE PARALLEL INVERTER
- AC COUPLED
- STICK LOGGER
- ZERO EXPORT
- UPGRADED 7000W MPPT
- MAX EFFICIENCY 97.6%
- 5th GENERATION
- TOUCH SCREEN DISPLAY

MATRIx

5.5KW (5500VA)

DESCRIPTION

- MAX CHARGING CURRENT (A) 120
- MAX DISCHARGING CURRENT (A) 120
- CHARGING CURVES - 3 STAGES / EQUALIZATION
- CHARGING STRATEGY FOR LI-ION BATTERY
- SELF-ADAPTION TO BMS



MATRIx

5.5KW (5500VA)



SPECIFICATIONS

MATRIx HYBRID 6KVA SP-5G

MODEL			
MATIC HYBRID 6KVA SP-5G			
Battery Input Data			
Battery Type	Lead-acid or Lithium-ion		
Battery Voltage Range (V)	40-60		
Max. Charging Current (A)	120		
Max. Discharging Current (A)	120		
Charging Curve	3 Stages / Equalization		
External Temperature Sensor	Yes		
Charging Strategy for Li-Ion Battery	Self-adaption to BMS		
PV String Input Data			
Max. DC Input Power (W)	6500		
PV Input Voltage (V)	370(100-500)		
MPPT Range (V)	125-425		
Dual MPPT	7000W		
Full Load DC Voltage Range (V)	240-425		
Start-up Voltage (V)	150		
PV Input Current (A)	13+13		
Max. PV ISC (A)	17+17		
No. of MPPT Trackers	2		
No. of Strings Per MPPT Tracker	1+1		
AC Output Data			
Rated AC Output and UPS Power (W)	6500		
Peak Power (off grid)	2 times of rated power, 10 S		
AC Output Rated Current (A)	21.7		
Max. AC Current (A)	25.0		
Max. Continuous AC Passthrough (A)	35		
Power Factor	0.8 leading to 0.8 lagging		
Output Frequency and Voltage	50/60Hz; 220/230 / 240Vac (single phase)		
Grid Type	Single Phase		
Current Harmonic Distortion	THD<3% (Linear load<1.5%)		
Efficiency			
Max. Efficiency		97.60%	
Euro Efficiency		95.50%	
MPPT Efficiency		99.90%	
Protection			
PV Input Lightning Protection		Integrated	
Anti-islanding Protection		Integrated	
PV String Input Reverse Polarity Protection		Integrated	
Insulation Resistor Detection		Integrated	
Residual Current Monitoring Unit		Integrated	
Output Over Current Protection		Integrated	
Output Shorted Protection		Integrated	
Output Over Voltage Protection		Integrated	
Surge protection		DC Type II / AC Type II	
Certifications and Standards			
Gold Regulation		IEC61727, IEC62116, IEC61683	
Safety Regulation		IEC62109-1, IEC62109-2	
EMC		IEC61000-6-1, IEC61000-6-3	
General Data			
Operating Temperature Range (C)		-25-60C, >45t Derating	
Cooling		Natural cooling	
Noise (dB)		<30 dB	
Communication with BMS		RS485; CAN	
Weight (kg)		22.5	
Size (mm)		340Vx580Hx225D	
Ingress Protection		IP65	
Protective Class		Class I	
Installation Style		Wall-mounted	
Warranty		5 years	