Single Phase Hybrid Storage Inverter

8-12 kW



The low voltage series storage Inverters are designed to increase energy independence for homeowners. The power range is from 8kW to 12kW, compatible with low voltage (40-60V) batteries.

Energy management is based on time-of-use and demand charge rate structures, which significantly reduce the amount of energy purchased from the public grid.

Thanks for the UPS function (switch time < 10ms), that enables the crucial loads power on during outages. Additionally, under the backup operation mode, the inverter provides you up to 150% peak output overloading.

The low voltage series storage inverters are integrated with Arc Fault Circuit Interrupter (AFCI) and rapid shutdown.



MAX. 240A Max. Charge/ Discharge Current 240A



PV OVERSIZE 1.5 Times PV Oversize





MPPT CHANNELS Up to 3 MPPT Channels



UPS FUNCTION Switch Time < 10ms



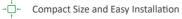
PARALLEL Max.6 Parallel Stacking



Support Generator

	Higher Yields
0	upport for Time-of-use Optimization
00	Configurable Operation Modes

Arc Fault Circuit Interrupter (AFCI) (Optional)



Colorful touch LCD, User-friendly

₽ Build in Anti-feed-in Function



Smart Monitoring & Remote Firmware Upgrade

D\/ Input						
PV Input	12	12 F	15	16.5	10	
Max. Input Power (kW)	12	13.5	550	16.5	18	
Max. PV Voltage (V)						
MPPT Range (V)	150 500	470 500	80 - 500	240 500	330 500	
Full MPPT Range (V)	150 - 500	170 - 500	190 - 500	210 - 500	230 - 500	
Normal Voltage (V)			360			
itartup Voltage (V)			100			
/lax. Input Current (A)	18.5 x 3					
Max. Short Current (A)	26 x 3					
No. of MPP Tracker / No. of PV String			3 / 1+1+2			
Battery Port						
Max. Charge/Discharge Power (kW)	8.0	9.0	10	11	12	
Max. Charge/Discharge Current (A)	200	240	240	240	240	
Battery Normal Voltage (V)			51.2			
Battery Voltage Range (V)	40 - 60					
Battery Type	Li-ion / Lead-acid etc.					
AC Grid & Diesel Gen (Optional)						
Max Continuous Current (A)	37	41	46	50	55	
Max Continuous Power (kVA)	8.0	9.0	10	11	12	
Nominal Grid Current (A)	36.4 / 34.8	41 / 39.2	45.5 / 43.5	50 / 47.9	54.6 / 52.2	
Nominal Grid Voltage (V)	198 to 242 @ 220 / 207 to 253 @ 230					
Nominal Grid Frequency (Hz)	50 / 60					
Power Factor	1 default (adjustable from 0.8 leading to 0.8 lagging)					
Current THD (%)			< 3			
AC Load Output						
Max Continuous Current (A)	37	41	46	50	55	
Max Continuous Power (kVA)	8	9	10	11	12	
Max Peak Current (A) (10min)	55.5	61.5	69	75	82.5	
Max Peak Power (kVA) (10min)	12	13.5	15	16.5	18	
Nominal AC Voltage L-N (V)			220 / 230			
Nominal AC Frequency (Hz)			50 / 60			
Switching Time (ms)			Seamless			
Voltage THD (%)			< 3			
Efficiency						
European Efficiency (%)			98.1			
Max. Efficiency (%)			96.8			
Protection						
PV Reverse Polarity Protection			Yes			
Bat. Reverse Polarity Protection			Yes			
Over Current/Voltage Protection			Yes			
Anti-Islanding Protection			Yes			
AC Short Circuit Protection			Yes			
Residual Current Detection			Yes			
Ground Fault Monitoring			Yes			
PV Arc Detection			Yes			
Enclosure Protect Level			IP66			
General Data						
Dimensions (W x H x D, mm)			785 x 614 x 258			
Weight (kg)			51			
Topology			Transformerless			
Cooling	Intelligent Fan					
Relative Humidity			0 - 100 %			
Operating Temperature Range (°C)	- 25 to 60 (Derating 45)					
Operating Altitude (m)	< 4000					
Standby Consumption (W)	< 30					
Mounting			Wall Bracket			
Communication with RSD			SUNSPEC			
Display & Communication Interfaces		ICD IED	RS485, CAN, Wi-Fi, (SPRS 4G		
Certification & Approvals	NRSOOT GOD ENEC				109-1 IECE2100	
EMC	ועונטט, ובטכאועו, באלט, בואטנ		4777.2, VDE-AR-N410 1000-6-2, EN61000-		103-1, IECUZ1U9-	

20