

HIGH-VOLTAGE HYBRID INVERTER, THREE-PHASE

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Color Touch Screen IP65 Protection

Supports AC Coupling to Improve Solar System Efficiency

Direct Support for Diesel Generator Power Without External Converter

Max Charge and Discharge Current 240A

Support to Set Up 6 Time Periods of Charge/Discharge

Up to 16 Units Parallel During On/Off-grid Operation

Supports Multiple Battery Parallel

Datasheet

Model	8K	10K	12K	15K	20K	30K	40K	50K	60K
PV STRING INPUT DATA									
Max. DC Input Power (W)	10400	13000	15600	19500	26000	39000	52000	65000	78000
Max. DC Input Voltage (V)	1000								
Start-up Voltage (V)	180								
Full Load DC Voltage Range	325-850				150-850				
Rated DC Input Voltage (V)	600								
Input Current (A)	20+20	20+20	26+26	26+26	36+36+36	36+36 36+36	36+36 36+36	36+36 36+36	36+36 36+36
Max. DC Short Circuit Current (A)	30+30	30+30	39+39	39+39	55+55+55	55+55 55+55	55+55 55+55	55+55 55+55	55+55 55+55
No. of MPPT Trackers	2	2	2	2	3	4	4	4	4
No. of Strings Per MPPT Tracker	1+1	1+1	1+1	1+1	2+2	2+2+2	2+2+2+2	2+2+2+2	2+2+2+2
AC INPUT/OUTPUT DATA									
Rated AC Output Power (W)	8000	10000	12000	15000	20000	30000	40000	50000	60000
Max. AC Output Power (W)	8800	11000	14400	16500	22000	33000	44000	55000	66000
AC Input/Output Rated Current (A)	12.2	15.2/14.5	18.2	22.8	30.4/29.0	45.5/43.5	60.7/58.0	75.8/72.5	91
Max. AC Input/Output Current (A)	13.4	16.7/16	19.2	25.0	33.4/31.9	50/47.9	66.7/63.8	83.4/79.8	100
Three-phase Unbalanced Output Current (A)	17.8	22	26.8	33.5	44.7	50	70	83.3	100
Max. Continuous AC Passthrough (A)	32	40	48	60	80	118	158	197	237
Peak Power (Off Grid)	1.5 times of rated power, 10 S								
Generator Input/Smart Load/AC Couple Current (A)	12.2 32 12.2	15.2 40 15.2	18.2 48 18.2	22.8 60 22.8	30.4 80 30.4	45.5 118 45.5	60.7 158 60.7	75.8 197 75.8	91 237 91
Power Factor	0.8 leading ~ 0.8 lagging								
Output Frequency and Voltage	50/60Hz; 3L/N/PE 220/380Vac, 230/400Vac								
Grid Type	Three Phase								
Total Harmonic Distortion (THD)	<3%								
DC Current Injection	<0.5%In								
BATTERY INPUT DATA									
Battery Type	Lithium-ion								
Battery Voltage Range (V)	160-700								
Max. Charging Current (A)	37				50+50				
Max. Discharging Current (A)	37				50+50				
External Temperature Sensor	1				2				
Charging Strategy for Li-ion Battery	Self-adaption to BMS								
EFFICIENCY									
Max. Efficiency	97.6%								
Euro Efficiency	97.0%								
MPPT Efficiency	99.9%								
CERTIFICATIONS AND STANDARDS									
Grid Regulation	IEC61727/62116/EN50549-1								
Safety EMC / Standard	IEC/EN 61000-6-1/2/3/4; IEC/EN 62109-1; IEC/EN 62109-2								
GENERAL DATA									
Operating Temperature Range (°C)	-25 ~ +60°C, >45°C Derating				-40 ~ +60°C, >45°C Derating				
Cooling	Smart cooling								
Noise (dB)	≤65 dB				<70 dB				
Communication with BMS	CAN								
Monitoring Mode	WiFi/APP								
Cabinet Size (mm)	490(W)×680(H)×240D (Excluding connectors and brackets)								
Weight (kg)	30kg				62.5kg				
Protection Degree	IP65								
Warranty	5 Years (10 Years Optional)								

* If the ambient temperature is too high or too low, performance will be limited.

* Under specific test conditions.