

KILOVANT

LOW-VOLTAGE HYBRID INVERTER, SINGLE-PHASE

SINGLE-PHASE HYBRID



Color Touch Screen IP65 Protection

AC Coupling Support

Direct Diesel Generator Support

Max Charge/Discharge Current 190A

6 Time Periods of Charge/Discharge

Up to 15 Units Parallel Support

Datasheet

Model	6K	8K	10K	12K
BATTERY INPUT DATA				
Battery Type	Lead-acid or Li-Ion			
Battery Voltage Range (V)	40-60			
Max. Charging Current (A)	135	190	220	250
Max. Discharging Current (A)	135	190	220	250
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)	7800	10400	13000	15600
PV Input Voltage (V)	370V (125V-500V)			
MPPT Range (V)	150-425			
Full Load DC Voltage Range	200-425			
Start-up Voltage (V)	125V			
PV Input Current (A)	13+13	20+20	26+26+26	26+26+26
No. of MPPT Trackers	2	2	3	3
No. of Strings Per MPPT Tracker	1+1	1+1	1+1+1	1+1+1
AC INPUT/OUTPUT DATA				
Rated AC Output and UPS Power (W)	6000	8000	10000	12000
Max. AC Output Power (W)	6000	8000	11000	13200
Peak Power (offgrid)	2 times of rated power, 10s			
AC Input/Output Rated Current (A)	27.3/26.1	38.4/34.8	45.5/43.5	54.6/52.2
Max. AC Input/Output Current (A)	30/28.7	40/38.3	50/47.9	60/57.4
Max. Continuous AC Passthrough (A)	40	50	60	60
Power Factor	0.8 leading – 0.8 lagging			
Output Frequency and Voltage	50/60Hz; 220/230Vac			
Grid Type	Single Phase			
Total Harmonic Distortion (THD)	<3% (of nominal power)			
DC Current Injection	<0.5%In			
EFFICIENCY				
Max. Efficiency	97.60%			
Euro Efficiency	96.50%			
MPPT Efficiency	>99%			
CERTIFICATIONS AND STANDARDS				
Grid Regulation	IEC61727/EN50549-1	IEC61727/EN50549-1	IEC62116/IEC61727/EN50549-1	IEC62116/IEC61727/EN50549-1
Safety EMC / Standard	IEC/EN 61000-6-2/4;IEC/EN 62109-1;IEC/EN 62109-2			
GENERAL DATA				
Operating Temperature Range (°C)	-40~+60°C, +45°C Derating			
Cooling	Smart Cooling			
Noise (dB)	≤50 dB			
Communication With BMS	Rs485; CAN			
Monitoring Mode	WIFI/APP			
Weight (kg)	24	29	31	31
Cabinet Size (mm)	346Wx506Hx255D	426Wx526Hx255D	446Wx576Hx254D	446Wx576Hx254D
Protection Degree	IP65			
Installation Style	Wall-mounted			

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

* Under specific test conditions.

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