Three Phase Hybrid Inverter

8 / 10 / 12 K-1LP3





- 48 — 48V low voltage battery, transformer isolation design
- 6 — 6 time periods for battery charging/discharging
- 240 — Max. charging/discharging current of 240A
- 16 — Frequency droop control, Max.16pcs parallel
- DC couple and AC couple to retrofit existing solar system
- Support storing energy from diesel generator

MOSA Aggregaten BV

Clean Power For You

Model	8K-1LP3	10K-1LP3	12K-1LP3
Battery Input Data			
Battery Type	Lead-acid or Li-Ion		
Battery Voltage Range (V)	40~60V		
Max. Charging Current (A)	190A	210A	240A
Max. Discharging Current (A)	190A	210A	240A
Charging Curve	3 Stages / Equalization		
External Temperature Sensor	Optional		
Charging Strategy for Li-Ion Battery	Self-adaption to BMS		
PV String Input Data			
Max. DC Input Power (W)	10400W	13000W	15600W
PV Input Voltage (V)	450V (140V~800V)		
MPPT Range (V)	140V-700V		
Start-up Voltage (V)	160V		
PV Input Current (A)	12.5A+12.5A	25A+12.5A	25A+12.5A
No.of MPPT Trackers	2		
No.of Strings Per MPPT Tracker	1+1	2+1	2+1
AC Output Data			
Rated AC Output and UPS Power (W)	8000W	10000W	12000W
Max. AC Output Power (W)	8800W	11000W	13200W
Peak Power (off grid)	2 times of rated power, 10 S		
AC Output Rated Current (A)	11.6A	14.5A	17.4A
Max. AC Current (A)	12.8A	16A	19.1A
Max. Continuous AC Passthrough (A)	60A	60A	60A
Output Frequency and Voltage	50/60Hz; 230/400Vac (Three phase)		
Grid Type	Three Phase		
Current Harmonic Distortion	THD<3% (Linear load<1.5%)		
Efficiency			
Max. Efficiency	97.60%		
Euro Efficiency	97.00%		
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			
Grid Regulation	UL1741, IEEE1547, RULE21, VDE 0126, AS4777, NRS2017, G98, G99, IEC61683, IEC62116, IEC61727		
Safety Regulation	IEC62109-1, IEC62109-2		
EMC	EN61000-6-1, EN61000-6-3, FCC 15 class B		
General Data			
Operating Temperature Range (℃)	-25~60℃, >45℃ Derating		
Cooling	Smart cooling		
Noise (dB)	<30 dB		
Communication with BMS	RS485; CAN		
Weight (kg)	45		
Size (mm)	420W×656H×281D		
Protection Degree	IP65		
Installation Style	Wall-mounted		
Warranty	5 years		