

Voltsmile x deye Three phase 12KW hybrid Inverter EU

Battery Input Data	
Battery Type	Lead-acid or Lithium-ion
Battery Voltage Range (V)	40-60
Max. Charging Current (A)	240
Max. Discharging Current (A)	240
External Temperature Sensor	Yes
Charging Curve	3 Stages / Equalization
Charging Strategy for Li-Ion Battery	Self-adaption to BMS
PV String Input Data	
Max. DC Input Power (W)	15600
Rated PV Input Voltage (V)	550 (160-800)
Start-up Voltage (V)	160
MPPT Voltage Range (V)	200-650
Full Load DC Voltage Range (V)	350-650
PV Input Current (A)	26+13
Max. PV ISC(A)	34+17
No.of MPP Trackers	2
No.of StringsperMPP Tracker	2+1
AC Output Data	
Rated AC Output Active Power (W)	12000
Max.AC Output Active Power (W)	13200
AC Output Rated Current (A)	18.2/17.4
Max. AC Output Current (A)	20/19.1
Max. Three-phase Unbalanced Output Current (A)	27.3/26.1
Max Output short circuit current (A)	75
Max. Continuous AC Passthrough (A)	45
Peak Power (off grid)	2 time of rated power, 10 S
Power Factor	0.8 leading to 0.8 lagging
Output Frequency and Voltage	50/60Hz; 3L/N/PE 220/380, 230/400Vac
Grid Type	Three Phase
Total Harmonics Current Distortion (THDi)	<3% (of nominal power)
DC Current Injection	<0.5% In
Efficiency	
Max. Efficiency	97.60%
Euro Efficiency	97.00%
MPPTEfficiency	99.90%
Protection	
Integrated	Anti-islanding Protection, PV String Input Reverse Polarity Protection, Insulation Resistor Detection, Residual Current Monitoring Unit, Output Over Current Protection, Output Shorted Protection
Surge Protection	DC Type III / ACType III
Over Voltage Category	DC Type II/ACType III
Certifications and Standards	
Grid Regulation	IEC 61727, IEC 62116, CEI 0-21, EN 50549, NRS 097, RD 140, UNE 217002, OVE-Richtlinie R25, G99, VDE-AR-N 4105
Safety EMC / Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2

General Data	
<i>Operating Temperature Range (°C)</i>	-40-60°C, >45°C Derating
<i>Cooling</i>	Smart Cooling
<i>Noise (dB)</i>	≤45 dB
<i>Communication with BMS</i>	RS485; CAN
<i>Weight (kg)</i>	33.6
<i>Cabinet Size (WxHxD mm)</i>	422×702×281 (Excluding Connectors and Brackets)
<i>Protection Degree</i>	IP65
<i>Installation Style</i>	Wall-mounted
<i>Warranty</i>	5 Years (10 Years Optional)