

Model	16 kW MAX Hybride Omvormer
<b>Battery Input Data</b>	
Battery Type	Lead-acid or Lithium-ion
Battery Voltage Range	40~60V
Max. Charge Current	290A
Max. Discharge Current	290A
Charging Curve	3 Stages/Equalization
External Temperature Sensor	Yes
Charging Strategy for Li-Ion Battery	Self-Adaptation to BMS
<b>PV String Input Data</b>	
Max. DC Input Power	20800W
Max PV Input Voltage	370V (125~500V)
MPPT Range	150V~425V
Start-up Voltage	125V
PV Input Current	26A + 26A + 26A
Max. PV Isc	44A + 44A + 44A
No. of MPPT / Strings Per MPPT	3 / 2+2+2
<b>AC Output Data</b>	
Max. On-Grid AC Power	16000W
Max. Off-Grid AC Power	17600W
Max. AC Output Apparent Power	16000VA
Peak Power (off-grid)	2 times of rated power, 10 S
AC Output Rated Current	72.7/69.6A
Max AC Current	80/76.5A
Max Continuous AC Passthrough	100A
Power Factor	0.8 leading to 0.8 lagging
Output Frequency and Voltage	50Hz/60Hz; 220/230Vac (single phase)
Grid Type	Single-Phase
Current Harmonic Distortion	THD < 3% (of nominal power)
DC Current Injection	< 0.5% In
<b>Efficiency</b>	
Max. Efficiency	97.60%
Euro Efficiency	96.50%
MPPT Efficiency	> 99%
<b>Protection</b>	
Integrated	PV Arc Fault Detection, PV Input Lightning Protection, 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 II / AC Type II
Over Voltage Category	DC Type II / AC Type III

## Certifications and Standards

Grid Regulation	EN 50549-1, AS-NZS 4777.2, NRS 097-2-1; Additional connections available upon request
EMC / Safety Regulation	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2

## General Data

Operating Temperature Range	-40~60°C, >45°C Derating
Cooling	Smart cooling
Noise	<50dB
Communication with BMS	RS485; CAN
Net Weight	52kg
Gross Weight	60kg
Size	464W×763H×282D mm (Excluding connectors and brackets)
Protection Degree	IP65
Installation Style	Wall-mounted
Warranty	5 years