## OPTONICA



## **THREE-PHASE HYBRID INVERTERS**



## Technical Data

Model	SKU: 9441
Battery Input Data	
Battery Type	Létrideamidoor
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 I s(A)	34+17
No.of MPP Trackers	2
No.of Strings per MPP 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 Harmonic Distortion (THD)	<3% (of nominal power)
DC Current Injection	<0.5% In
Efficiency	1010/0111
Max. Efficiency	97.60%
Euro Efficiency	97.00%
MPPT Efficiency	99.90%
Protection	77.7070
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
Over Voltage Category	DC Type II/AC Type III
Certifications and Standards	
Grid Regulation	VDE4105, IEC61727/62116, VDE0126, AS4777.2, CEI 0 21, EN50549-1, G98, G99, C10-11, UNE217002, NBR16149/NBR16150
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)	-40-60 ,>45 derating
Cooling	Smart Cooling
Noise (dB)	≤45 dB
Communication with BMS	RS485; CAN
Weight (kg)	33.6
Size (mm)	422W x 702H x281D
Protection Degree	IP65
Installation Style	Wall-mounted
Warranty	5 Years (10 Years Optional)
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Support storing energy from diesel generator