

Single Phase Hybrid Inverter

SOL204 | SOL205 | SOL206



Product features

- 97.6% max. efficiency
- Within 10ms UPS-level switching
- Max. 15A PV input current
- IP65 protection degree
- Compact and elegant design with integrated diecasting technology
- Long-term efficient operation with advanced heat dissipation design
- Intelligent energy management with built-in EMS
- Max. 30A charge/discharge current
- 85-450V super wide battery voltage current
- Convenient installation and O&M with horizontal design and quick plug terminals
- Easy data check via both OLED display and App
- Easy Wifi configuration via App
- Ideal for residential application with low operating noise

Model	SOL204	SOL205	SOL206
Battery Parameters			
Battery Type	Lithium Battery (with BMS)		
Battery voltage Range (V)	85-465		
Max. Charge/Discharge Current (A)	30/30		
Input DC (PV side)			
Max. Input Power (kW)	5.76	8.00	9.60
Start-up Voltage (V)	80	80	80
Max. DC Input Voltage (V)	600	600	600
Rated DC Input Voltage (V)	360	360	360
MPPT Voltage Range (V)	100 - 550	100 - 550	100 - 550
No. of MPPT Trackers	1	2	2
No. of DC Inputs per MPPT	1	1/1	1/1
Max. Input Current (A)	15	15/15	15/15
Max. Short-circuit Current (A)	20	20/20	20/20
Output / Input AC (Grid side)			
Rated Output Power (kW)	3.60	5.00	6.00
Max. Output Apparent Power (kVA)	3.96	5.50	6.60
Max. Input Apparent Power (kVA)	7.20	10.00	12.00
Max. Charging Power of Battery (kVA)	3.60	5.00	6.00
Rated AC Voltage (V)	L/N/PE; 220/230/240V		
Rated AC Frequency (Hz)	50/60	50/60	50/60
Max. Output Current (A)	18.00	25.00	28.70
Power Factor	0.8 leading ... 0.8 lagging		
Max. Total Harmonic Distortion	< 3% @Rated output power		
DCI	< 0.5%In	< 0.5%In	< 0.5%In
Output AC (Emergency Power Supply)			
Rated Output Power (kW)	3.60	5.00	6.00
Max. Output Apparent Power (kVA)	3.96	5.50	6.60
Max. Output Current (A)	18.00	25.00	28.70
UPS Switching Time	< 10ms	< 10ms	< 10ms
Rated Output Voltage (V)	L/N/PE; 220/230/240V		
Rated Output Frequency (Hz)	50/60	50/60	50/60
Peak Output Apparent Power (kVA)	4.7,60s	6.5,60s	7.8,60s
Voltage Harmonic Distortion	< 3% @Liner load		
Max. efficiency of solar inverter	97.6%	97.6%	97.6%
European efficiency of solar inverter	97.0%	97.0%	97.6%
Protection			
DC Reverse Polarity Protection	Integrated		
Battery Input Reverse Connection Protection	Integrated		
Insulation Resistance Protection	Integrated		
Surge Protection	Integrated		
Over-temperature Protection	Integrated		
Residual Current Protection	Integrated		
Islanding Protection	Integrated		
AC Over-voltage Protection	Integrated		
Overload Protection	Integrated		
AC Short-circuit Protection	Integrated		
General Data			
Over Voltage Category	PV: II; Main: III		
Dimensions (W×H×D mm)	534×418×210		
Weight (KG)	27.0		
Protection Degree	IP65		
Standby Self-consumption (W)	< 15		
Topology	Transformerless		
Operating Temperature Range (°C)	-30~60		
Relative Humidity (%)	0~100		
Operating Altitude (m)	3000 (>3000m derating)		
Cooling	Natural Convection		
Noise Level (dB)	< 25		
Display	OLED & LED		
Communication	CAN, RS485, WiFi/LAN (Optional)		
EMC	EN 50549-1, TOR Generator Type A		
Safety standards	IEC / EN 62109, IEC / EN 61000		
Grid standards	VDE- AR-N-4105		