

Hybrid Inverter

Omnikhyd-3k/3.6k-TL2



Product Features

【Operating Flexibility】

- Programmable operating modes
- On-grid mode, easy feed-in to the grid, backflow prevention, energy self-sustainability
- Off-grid mode, worry-free of grid failure
- Nonstop power feed from Solar/Battery/Utility
- Works without battery
- First priority of PV, second priority programmable of battery or grid
- High efficient BMS, settable EOD, floating voltage and charge current

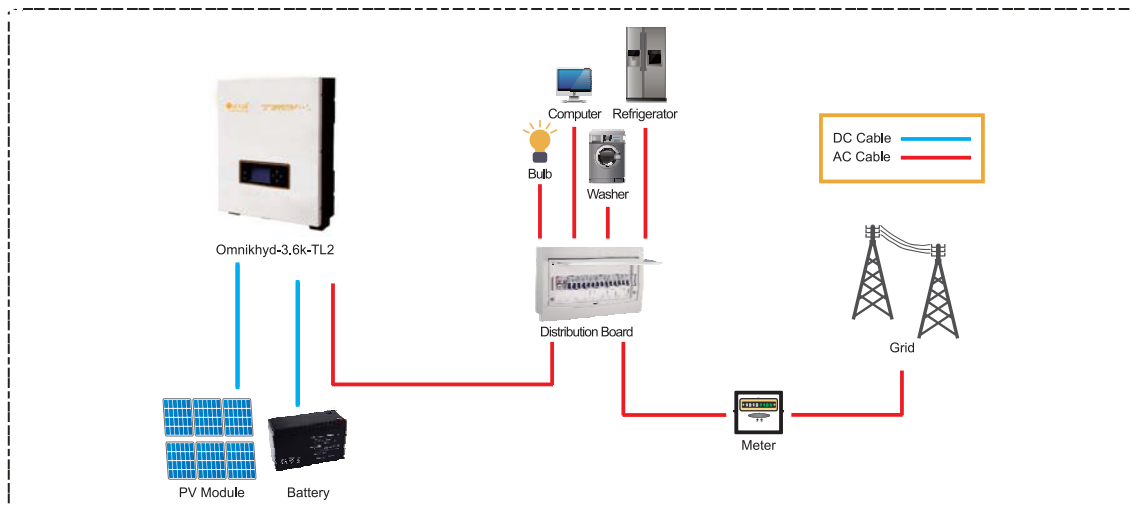
【Intelligent Monitoring】

- LCD, LED display real-time operating information
- Real-time monitoring software
- Operating modes are programmable via monitoring software
- Communication via USB, Rs485 or SNMP

【High Efficiency And Safety】

- Soft-switching technology, improving inverter efficiency
- DSP complete digital control technology
- Small size, light weight, easy installation
- Superior protection

Diagram



Technical Data

Omnikhyd-3k/3.6k-TL2

Type	Omnikhyd-3k-TL2	Omnikhyd-3.6k-TL2
Rated Power [W]	3000	3600
Operating Mode	Flexible setup via upper computer software or LCD interface	
Input(PV)		
Max. Input Power [W]	4500	4500
Rated Input Voltage [V]	360	360
Max. Input Voltage [V]	500	500
Start-up Voltage [V]	115	115
Initial Feeding Voltage [V]	150	150
MPPT Voltage Range [V]	250 - 450	250 - 450
Max. Input Current[A]	18	18
PV Short Circuit Current [A]	18	18
Number of MPPT	1	1
Batteries		
Battery Type	Lithium Battery / Lead-acid Battery	Lithium Battery / Lead-acid Battery
Rated Voltage [V]	51.2 / 48	51.2 / 48
Voltage Range [V]	46.4 - 57.6 / 40 - 58	46.4 - 57.6 / 40 - 58
Battery Capacity [Ah]	100 - 120 optimized	100 - 120 optimized
Rated Charging Power [W]	1425	1425
Max. Charging Current [A]	25 (5 / 10 / 15 / 20 / 25 settable)	25 (5 / 10 / 15 / 20 / 25 settable)
Charging Curve	3 Stage	3 Stage
Max. Charging Efficiency	94%	94%
Rated Discharging Power [W]	3000	3000
Max. Discharging Current [A]	100	100
Max. Discharge Efficiency	94%	94%
Input(AC Grid)		
AC Start-up Voltage [V]	120	120
Grid Voltage Range [V]	170 - 280	170 - 280
Rated Grid Frequency [Hz]	50 / 60	50 / 60
Grid Frequency Range [Hz]	50 ± 5 / 60 ± 5	50 ± 5 / 60 ± 5
Power Factor	0.9c_1_0.9i	0.9c_1_0.9i
Output(AC)		
Rated Output Power	3000VA / 3000W	3600VA / 3600W
Rated Output Power (EPS)	3000VA / 3000W	2000VA / 2000W
Rated Output Voltage [V]	230 (208 / 220 / 240 settable)	230 (208 / 220 / 240 settable)
Rated Output Current [A]	13 (14.4 / 13.6 / 12.5)	15.6 (17.3 / 16.4 / 15)
Rated Output Current (EPS)[A]	13 (14.4 / 13.6 / 12.5)	8.7 (9.6 / 9.1 / 8.3)
Output Voltage Range [V]	184 - 264.5	184 - 264.5
Rated Output Frequency [Hz]	50 / 60	50 / 60
Output Frequency Precision	± 1%	± 1%
Power Factor	0.9c_1_0.9i	0.9c_1_0.9i
Output Voltage Precision	± 1%	± 1%
Transient Recovery Time [ms]	≤ 40	≤ 40
Peak Factor	3 : 1	3 : 1
Linear Load Waveform Distortion	≤ 3%	≤ 3%
Short Circuit Current [A]	45 (100ms)	45 (100ms)
Transfer Time		
Off-grid Mode → On-grid Mode [ms]	0	0
On-grid Mode → Off-grid Mode [ms]	10	10
Efficiency		
MPPT Efficiency	99%	99%
Max. PV Efficiency	96%	96%
Others		
Dimensions W*D*H [mm]	410*123*470	
Net Weight [kg]	14.4	
Communications	USB / RS485 / SNMP optional	
Protection Rating	IP 20	
Operating Temperature [°C]	0 - 40 (derating above 40 °C)	
Max. Relative Humidity	0 - 90%	
Max. Altitude [m]	< 1000 (derating above 1000 m)	
Cooling	Forced Ventilation	
Alarm	LED , Buzzer	
Display	LED , LCD	
Noise [dB]	< 50	
Topology	Transformerless	

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