



Solar Hybrid Inverter 20.0KVA / 360Vdc (Model: Signal) - PV Priority/AC Priority



FEATURES:

- Built-in 60Amp MPPT charger
- Isolation transformer
- MCU digital controller
- Remote monitoring
- Wide MPPT voltage range

TECHNICAL SPECIFICATIONS:

- Rated Apparent Power 20KVA
- Rated Real Power 18KW
- Power Factor 0.9
- Rated input voltage (AC) 380V (+/-20%)
- Rated output voltage (AC) 350V (+/- 1%)
- Battery Voltage (DC) 360VDC
- Battery Quantity 30 units ,12V
- Working Mode PV Solar, AC replenish

PV INPUT:

- Maximum Voltage 750VDC
- Best working voltage (Vmp) 444VDC - 550VDC
- Float charging voltage 414V +/- 1%
- Maximum Efficiency >= 98%
- Equalize charging voltage 428V +/- 1%
- Maximum current 60A
- PV Input Arrays 1+1 (Reserved)
- MPPT modular 1+1 (Reserved)

AC RECTIFIER:

- Input Voltage Range 3 Phase, 380V +/- 20% (-10%, +20% n can charge the batteries)
- Input frequency range 50Hz/60Hz (can be set backstage)
- Frequency range 50Hz/60Hz (+/- 5Hz)
- Soft start 0 - 100% 10sec
- Power Factor 0.8
- Float charging voltage(20°C) 410V (+/- 1%)
- Maximum voltage 415V (+/- 1%)
- Maximum charging current(A) 25sA
(Battey capacity allowed)

INVERTER:

- Inverter Voltage Three phase four line + G 380VAC
- Phase Voltage setting 220-230-240 VAC (can be set backstage)
- Output voltage accuracy +/- 1%
- Voltage transients range +/- 5%

- Transient recovery range 20 ms
- Rated Frequency 50Hz/60Hz (+/- 1%)
- Frequency Tracking Range 50Hz/60Hz (+/- 3%)
- Crest factor 03:01
- Wave Pure Sinewave
- THD $\geq 3\%$
- Voltage unbalance degree +/- 3 % (100% unbalance load)
- Overload $\geq 105\%$ - 110% transfer to bypass 1 hour later, recover when reduce load
 $\geq 110\%$ - 125% transfer to bypass 10 minutes later, recover when reduce load
 $\geq 125\%$ - 150% transfer to bypass 1 minutes later, recover when reduce load
 $\geq 150\%$ transfer to bypass 10 seconds later, recover when user confirmed
 $\geq 200\%$ transfer to bypass 10 seconds later, recover when user confirmed
- Short circuit System current limited, shut down immediately boot user confirmed
- Maximum efficiency % $\geq 91\%$

BYPASS:

- Rated Voltage (V) 3 phase 4 wire + Gnd 380Vac
- Voltage range +/- 20%
- Rated Frequency (Hz) 50Hz/60Hz +/-5Hz
- Maximum Current 38A

BATTERY MANAGEMENT:

- End of discharge 315V
- Charging Current setting..... Factory settings is 0.15C. User can set 0.05 - 0.3C
- Battery Intelligent management Equalizing charging and float charging automatically transfer, automatic temperature compensation for battery (when battery detection not connected, default environment temperature)
- Staggering depth of discharge setting 1.85V - 2.1v can be set by user

TRANSFER TIME:

- Inverter/Bypass transfer time 0ms
- Inverter/Bypass transfer time 0ms

COMMUNICATION INTERFACE:

- Remote control unit Inverter on, off, abnormal clear, emergency power off
- PC Monitoring interface RS232, RS485, SNMP (Optional)
- Dry contact Bypass input abnormal, rectifier input abnormal, system fault, system warning, low battery, overload, fans fault, generator ON/OFF

ENVIRONMENT:

- Operation Temperature 0 - 42 °C
- Maximum relative humidity 90% (Non condensed)
- Maximum Working Altitude 1000m (100m higher, 1% derated, max 4000m)



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OTHER:

- Cooling Way Forced ventilation (fans speed varies with the load)
- Noise Level (inverter with load and temperature)dB 65dB
- Mean time between failures(MTBF) .. 200,000 Hours (23 years)
- Defend grade (EN60529) IP20
- Power line output Bottom
- Standard IEC62040.1-1 EN62109.1.2010. EN62109-2-2011
- Dimension (W X D X H)mm 600x700x1750
- Packing dimension W X D X H)mm 690x790x1850
- Weight 280KG

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