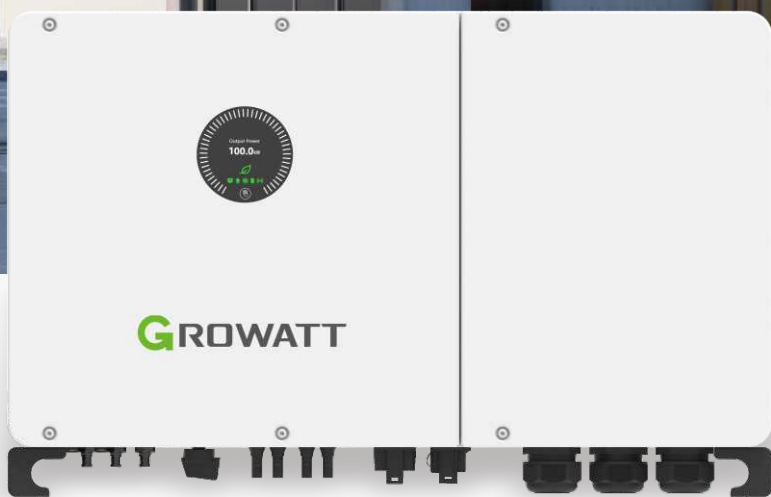


WIT Hybrid Inverter

(WIT 29.9~50K-XHU)

- Multiple MPPTs and battery input
- Support DG input and smart load function
- Support UPS function and black start function
- Support multi-system operation in parallel in off-grid mode
- Intelligent air cooling, no derating at 50°C ambient temperature
- 100% three-phase unbalanced output and 150% off-grid overload capacity
- Strong power grid adaptability, supporting weak grid environments with SCR<1.2



Preliminary Version

P O W E R
- I N G O
T O M O -
R R O W O

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| Datasheet | WIT 29.9K-XHU | WIT 30K-XHU | WIT 36K-XHU | WIT 40K-XHU | WIT 50K-XHU |
|--|-----------------|-------------|--------------------------------|--------------|--------------|
| Input Data (PV) | | | | | |
| Max. recommended PV power (for module STC) | 59.8kW | 60kW | 72kW | 80kW | 100kW |
| Start voltage | | | 195V | | |
| Max. DC voltage | | | 1100V | | |
| Nominal voltage | | | 620V | | |
| Max. open circuit voltage of PV | | | 1000V | | |
| Operating voltage range | | | 180V-1000V | | |
| Full load DC voltage range | 375V-850V | 375V-850V | 450V-850V | 500V-850V | 620V-850V |
| Max. input current per MPP tracker | | | 40A | | |
| Max. short-circuit current per MPP tracker | | | 50A | | |
| No. of PV strings per MPP tracker | | | 2 | | |
| No. of MPP trackers | | | 4 | | |
| Battery Data (DC) | | | | | |
| Battery voltage range | | | 200-900V | | |
| Full load battery voltage range | 200-800V | 200-800V | 225-800V | 250-800V | 310-800V |
| Recommended battery voltage | | | 512V | | |
| No. of battery input | | | 3 | | |
| Max. charging/discharging current | | | 55A*3 | | |
| BMS communication | | | RS485/CAN | | |
| Input/Output AC | | | | | |
| AC input/output nominal power(Grid) | 59.8kW/29.9kW | 60kW/30kW | 72kW/36kW | 80kW/40kW | 100kW/50kW |
| Max. AC input/output apparent power(Grid) | 59.8kVA/29.9kVA | 66kVA/33kVA | 79.2kVA/39.6kVA | 88kVA/44kVA | 110kVA/55kVA |
| Max. input/output current(Grid) | 90.6A/45.3A | 100A/50A | 120A/60A | 133.3A/66.7A | 166.7A/83.3A |
| Max. input current(GEN/AC couple) | 90.6A/45.3A | 100A/45.5A | 120A/54.5A | 133.3A/60.7A | 166.7A/75.7A |
| Max. continuous AC passthrough current | | | 200A | | |
| Nominal AC voltage/range [¶] | | | 380/400V -15%~10% | | |
| Nominal AC grid frequency/range | | | 50Hz/60Hz, 45-55Hz/55-65Hz | | |
| Power factor(@nominal power) | | | >0.99 | | |
| Adjustable power factor | | | -1...+1 | | |
| THDi | | | <3% | | |
| AC grid connection type | | | 3P3W+PE/3P4W+PE | | |
| Backup Power | | | | | |
| AC nominal output power | 29.9kW | 30kW | 36kW | 40kW | 50kW |
| Max. AC apparent power | 29.9kVA | 45kVA | 54kVA | 60kVA | 75kVA |
| Nominal AC voltage | | | 220V/230V(L-N), 380V/400V(L-L) | | |
| Nominal AC frequency | | | 50/60Hz | | |
| Max. output current | 68.0A | 68.2A | 81.8A | 91A | 113.6A |
| Overload capability | | | 1.5 times of rated power, 10s | | |
| THDv | | | <3% (@Linear full load) | | |
| Switch time | | | ≤10ms | | |
| Efficiency | | | | | |
| Max. efficiency | | | 98.1% | | |
| Protection Devices | | | | | |
| DC reverse polarity protection | | | Yes | | |
| Battery reverse protection | | | Yes | | |
| Insulation resistance monitoring | | | Yes | | |
| AC/DC surge protection | | | Type II | | |
| AC short-circuit protection | | | Yes | | |
| Ground fault monitoring | | | Yes | | |
| Grid monitoring | | | Yes | | |
| String monitoring | | | Yes | | |
| Anti-islanding protection | | | Yes | | |
| Residual-current monitoring unit | | | Yes | | |
| General Data | | | | | |
| Dimensions (W/H/D) | | | 920/585/320mm | | |
| Weight | | | 90kg | | |
| Operating temperature range | | | -30°C - 60°C (>50°C derating) | | |
| Noise emission | | | ≤55dB | | |
| Altitude | | | 4000m | | |
| Topology | | | Transformerless | | |
| Cooling | | | Smart air cooling | | |
| Protection degree | | | IP66 | | |
| Relative humidity | | | 0~95% | | |
| Interfaces | | | | | |
| Display | | | OLED+LED/APP | | |
| Interfaces | | | RS485/USB/CAN, WIFI/LAN(Opt) | | |
| Warranty: 5 / 10 years | | | Yes/Opt | | |

CE/CB, ROHS, IEC 62109-1, IEC 62109-2, IEC 62477-1, EN 62920, IEC 61000-6-4, IEC 61000-6-2, IEC 61000-3-12, IEC 61000-3-11, EN 55011, IEC 62116, IEC 61727, IEC 61683, IEC 60068-2-1, NRS097-2-1

* 1 The AC voltage range may vary depending on specific country grid standard. All specifications are subject to change without notice.

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