# 13 Single / Three Phase Hybrid Inverter

### High Capability

15 units in parallel 2 independent ports for battery Support mixture use of old & new battery

### Higher Reliability

IP65 Outdoor & Indoor Installation
Natural cooling, Ultra silence SiC technology, Longer lifespan Plug-in design, Easy to install

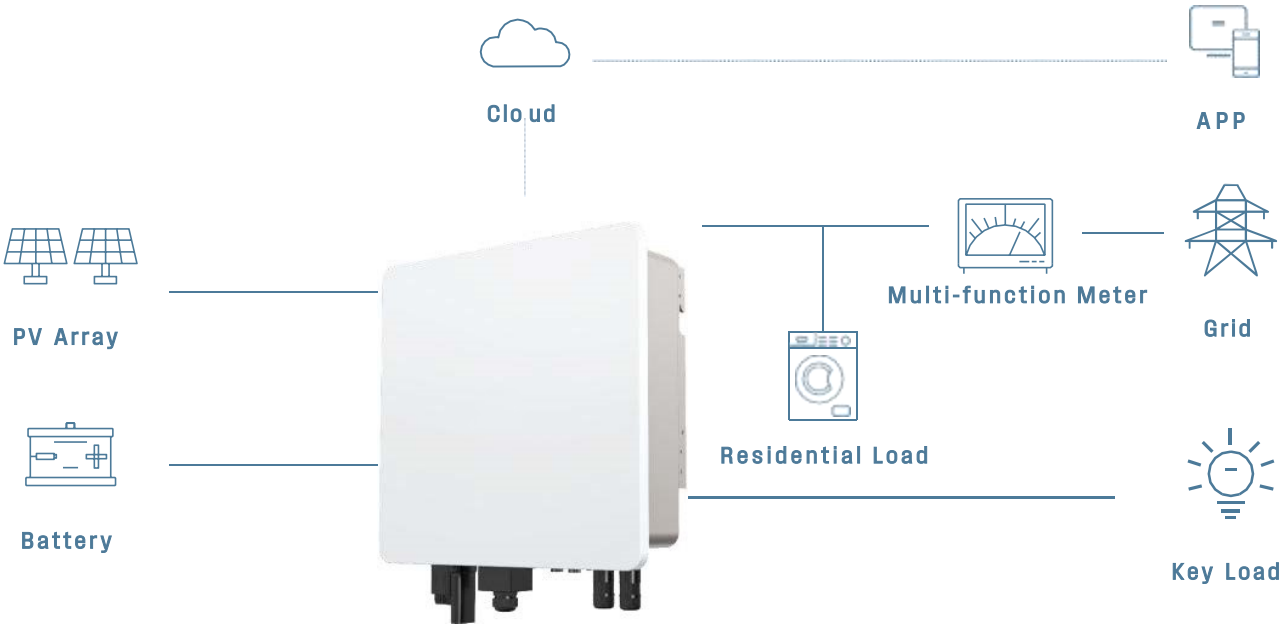
### Smart Monitoring

Auto sleep
VPP interface ready
Cloud + Smart data analysis

### Strong Load Adaptability

UPS function Flexible DO control
10ms on/off-grid switchover 100% three phase unbalance

## Typical Configuration



# 13 Single / Three Phase Hybrid Inverter: BRAVO-(3-6)KS-G

BRAVO Series Single Phase Hybrid Inverter (3-6) KW

| Single Phase Datasheet | | | | | | |
|---|---|---|---|---|---|---|
| Model | BRAVO-3KS-G | BRAVO-3.6KS-G | BRAVO-4KS-G | BRAVO-4.6KS-G | BRAVO-5KS-G | BRAVO-6KS-G |
| **off grid Parameter** | | | | | | |
| Rated Powver | 3000W | 3600W | 4000W | 4600W | 5000W | 6000W |
| Nominal Voltage | 220V/230V/240V | | | | | |
| Nominal Frequency | 50/60Hz | | | | | |
| Norninal Dutput Current | 13.4A | 16.4A | 18.2A | 20.8A | 22.7A | 27.2A |
| THD | ＜2% | | | | | |
| **On-grid Parameter** | | | | | | |
| Rated Power | 3000W | 3600W | 4000W | 4600W | 5000W | 6000W |
| Mlax.Output Current | 13.4A | 16.4A | 18.2A | 20.8A | 22.7A | 27.2A |
| Nominal Grid Voltage | 220V/230V/240V | | | | | |
| Max. input Current from Grid | 16.4A | 22.7A | | 27.2A | | |
| Frequency Range | 46-65Hz | | | | | |
| **PV Input Parameter** | | | | | | |
| Mlax. input Power | 4500W | 6000W | | 7500W | | 9000W |
| Starting Voltage | 95V | | | | | |
| Max. Input Voltage | 600V | | | | | |
| MPPT Voltage Range | 80-550V | | | | | |
| Number of MPPT | 2 | | | | | |
| Input String Per MPPTs | 1 | | | | | |
| Max.inputCurrent | 18A/18A | | | | | |
| **Battery Parameter** | | | | | | |
| BatteryType | Lithiurn-ion | | | | | |
| Nominal Battery Voltage | 51.2V | | | | | |
| Battery Voltage Range | 42-58V | | | | | |
| Mlax, Charging Voltage | ≤60V | | | | | |
| Max. ContinuousCharging/ Discharging Current | 75A | 85A | | 100A | | |
| **Efficiency** | | | | | | |
| Max. Efficiency | 97.5% | | 97.9% | | 99% | |
| European Efficiency | 97.2% | | 97.3% | | 97.5% | |
| Discharging Efficiency | 95.2% | | | | | |
| **General Data** | | | | | | |
| Dimension | 500*470*180mm | | | | | |
| Weight | 21KG | | | | | |
| Noise | <25dB(A) | | | | | |
| Operating Temperature Range | -25℃~+60℃ | | | | | |
| Cooling Method | Natural Cooling | | | | | |
| Comrunication | RS485/CAN/Drycontact/Parallelport | | | | | |
| Protection | IP65 | | | | | |
| **Certifcation** | | | | | | |
| CE_LVD | IEC 62109-1,IEC 62109-2, EN 62109-1, EN 62109-2 | | | | | |
| CE_EMC | EN 61000-6-1,EN 61000-6-2,EN 61000-6-3, EN 61000-6-4 | | | | | |
| Grid | VOE-AR-N 4105, C10-11, G98/ G99, CEI 0-21, EN 50549, NAS 097-2-1, AS 4777.2, R25, UNE 217001, UNE 217002, NTS 2.1 | | | | | |

# 13 Single / Three Phase Hybrid Inverter: BRAVO-(10-20)KT-G

BRAVO Series

Three Phase Hybrid Inverter (10-20) KW

| Single Phase Datasheet | | | | |
|---|---|---|---|---|
| Model | BRAVO-10KT- G | BRAVO-12KT- G | BRAVO-15KT- G | BRAVO-20KT- G |
| **off grid Parameter** | | | | |
| Rated Powver | 10kW | 12kW | 15kW | 20kW |
| Nominal Voltage | 3/N/PE, 220V/380Vac, 230/400Vac | | | |
| Nominal Frequency | 50/60Hz | | | |
| Norninal Dutput Current | 15A | 18A | 22.5A | 30A |
| THD | ＜3% | | | |
| **On-grid Parameter** | | | | |
| Rated Power | 10kW | 12kW | 15kW | 20kW |
| Max. input Power from Grid | 20kVA | 24kVA | 30kVA | 40kVA |
| Max. input current from Grid | 29A | 35A | 44A | 58A |
| Max. Output Current | 16A | 20A | 24A | 32A |
| Nominal Grid woltage | 3/N/PE, 220V/380Vac, 230/415Vac | | | |
| Grid Voltage Range | 184-276V/320-480V | | | |
| **PV Input Parameter** | | | | |
| Mlax. Input Power | 15kW | 18kW | 22.5kW | 30kW |
| Starting Voltage | 1000V | | | |
| Number of MPPTs | 2 | | | |
| Input String Per MPPT | 2 | | | |
| MPPT Voltage Range | 180V-960V | | | |
| Full Load MPPT Voltage Range | 250-850V | 290-850V | 350-850V | 450-850V |
| Starting Voltage | 200V | | | |
| Short-Circuit Current | 30Al30A | | | |
| Max.input Current | 25A/25A | | | |
| **Battery Parameter** | | | | |
| BatteryType | Lithiurn-ion | | | |
| Number of Battery Input | 2 | | | |
| Battery Voltage Range | 180-800V | | | |
| Full Load Battery Voltage Range | 210-800V | 250-800V | 300-800V | 400-800V |
| Peak Charging / Discharging Current & Duration | 35A/35A(60s) | | | |
| Max, Charging/ Discharging Curent | 25A/25A | | | |
| **Efficiency** | | | | |
| Max. Efficiency | 98.20% | | | |
| European Efficiency | 97.70% | | | |
| Discharging Efficiency | 97.80% | | | |
| **General Data** | | | | |
| Dimension | 573*508*218mm | | | |
| Weight | 35KG | | | |
| Noise | <45dB(A) | | | |
| Operating Temperature Range | -25℃~+60℃ | | | |
| Cooling Method | Air Cooling | | | |
| Comrunication | RS485/CAN/Drycontact/Parallelport | | | |
| Protection | IP65 | | | |
| **Certifcation** | | | | |
| CE_LVD | IEC 62109-1,IEC 62109-2, EN 62109-1, EN 62109-2 | | | |
| CE_EMC | EN 61000-6-1,EN 61000-6-2,EN 61000-6-3, EN 61000-6-4 | | | |
| Grid | VOE-AR-N 4105, C10-11, G98/ G99, CEI 0-21, EN 50549, NAS 097-2-1, AS 4777.2, R25, UNE 217001, UNE 217002, NTS 2.1 | | | |