

INVERTER **ON - GRID**





Grid Tied (On-Grid), adalah inverter yang berfungsi untuk memberikan aliran jaringan listrik setelah menarik energi dari solar panel. Untuk alasan keamanan inverter ini akan otomatis mati atau tidak memiliki daya saat terjadi power outage (mati lampu) pada sistem On Grid.

Dengan inverter ini, kelebihan KWh yang diperoleh dari solar panel bisa disalurkan kembali ke jaringan listrik PLN, hal ini sebenarnya menguntungkan bagi konsumen PLN dimana sisa hasil listrik ini nantinya bisa dinikmati bersama.

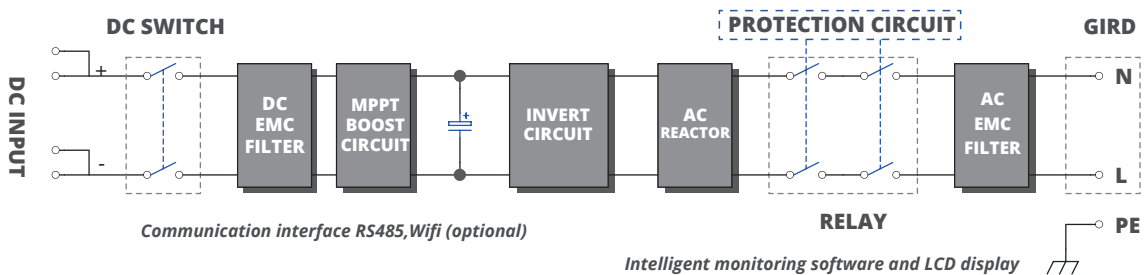
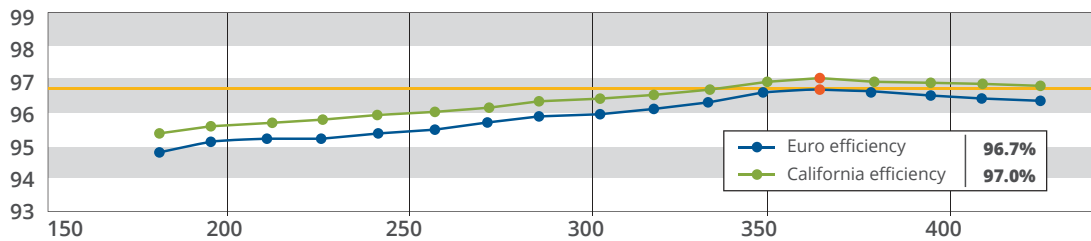
Pengganti besarnya KWh yang disuplai harus dibayar oleh PLN, sayangnya untuk Negara Indonesia PLN belum melaksanakan prosedur tersebut.

SNV-GT-SM 1 - 3 KW



Feature Highlights:

- Transformer-less design and compact in size
- IP65 Protection Class
- Firmware is upgradeable via RS232 Port
- Optional DC switch available
- Comply with latest VDE AR N1405 standard
- MPPR Efficiency > 99.9%
- Maximum Efficiency > 97.6%
- Mimic LCD Display
- Versatile communication interface options, standard RS485 port and external WiFi and Ethernet devices.
- Monitoring software offers operational status and electricity generated data.



GRID-TIED PV INVERTER

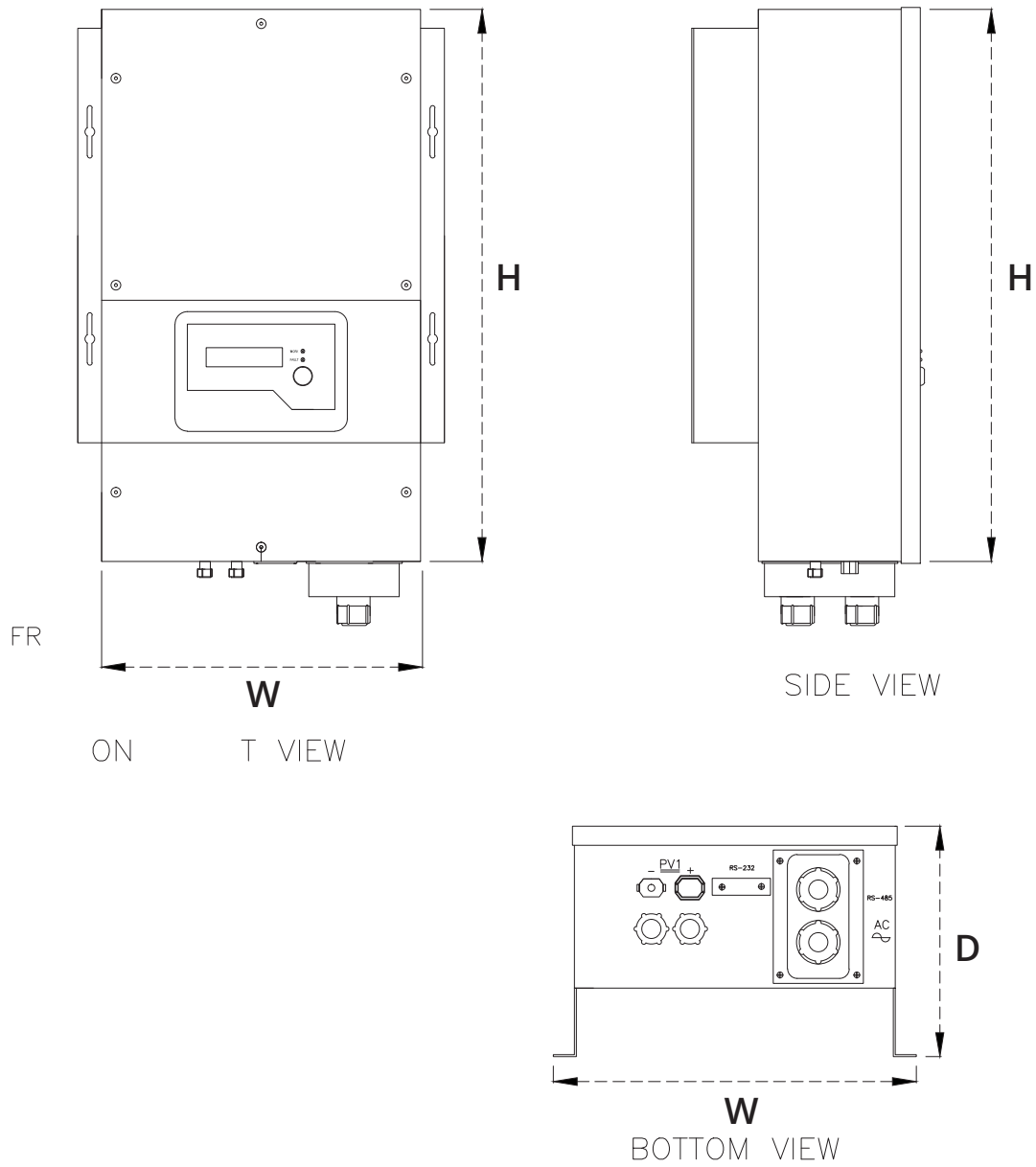
Grid-Tied SNV-GT-SM TECHNICAL SPECIFICATION

| MODEL | SNV-GT-1001SM | SNV-GT-2001SM | SNV-GT-3001SM |
|---|--|---------------|---------------|
| INPUT | | | |
| MAX. DC INPUT POWER | 1300 W | 2400 W | 3300 W |
| MAX. DC INPUT VOLTAGE | 500 Vdc | | |
| MPPT TRACKING VOLTAGE RANGE | 80 ~ 450 Vdc | 150 ~ 450 Vdc | |
| NUMBER OF MPPT TRACKING | 1 | | |
| STRINGS OF MPPT TRACKING | 1 | | 2 |
| MAX. INPUT CURRENT <i>for each tracking</i> | 9 A | 11 A | 17 A |
| OUTPUT | | | |
| RATED OUTPUT POWER | 1150 W | 2000 W | 3000 W |
| MAX. AC OUTPUT POWER | 1000 W | 2200 W | 3100 W |
| RATED OUTPUT VOLTAGE | 230 Vac | | |
| OUTPUT VOLTAGE RANGE | 184 ~ 276 Vac | | |
| GRID FREQUENCY RANGE | 50/60Hz (±5Hz), (adjustable) | | |
| RATED OUTPUT CURRENT | 4.5 A | 8.7 A | 13 A |
| MAX. OUTPUT CURRENT | 5 A | 11 A | 15 A |
| POWER FACTOR (COS Φ) | 1 | | |
| THDi | <2% | | |
| SYSTEM FEATURES | | | |
| MAX. EFFICIENCY | >96.0% | >96.9% | >97.5% |
| EURO EFFICIENCY | >95.0% | >95.0% | >96.5% |
| MPPT EFFICIENCY | 99.9% | | |
| STANDBY (NIGHT TIME) LOSSES | <0.2 W | | |
| DC SWITCH | Optional | | |
| COMMUNICATION INTERFACE | RS232 / RS485 standard, external WiFi or Ethernet (optional) | | |
| ENVIRONMENTAL | | | |
| OPERATING TEMPERATURE | -20°C~60°C | | |
| HUMIDITY RANGE | 0 ~ 95% (non-condensing) | | |
| ALTITUDE | 2000m | | |
| NOISE LEVEL | <25dB (1 meter from surface) | | |
| PROTECTION RATING | IP65 | | |
| PHYSICAL | | | |
| DIMENSION W x H x D (mm) | 335 x 580 x 170 | | |
| SHIPPING WEIGHT (KG) | 15.8 | | 18.2 |
| STANDARDS | | | |
| SAFETY | IEC/EN62109-1, IEC/EN62109-2, VDE0126-1-1, VDE AR N4105, G83/59/EEG2012, AS3100/4777, CEI 0-21, CNCA/CTS0006:2010, CNCA/CTS0004:2009A, etc | | |
| EMC | EN61000-6-2, EN61000-6-3, etc | | |

Specifications subject to change without prior notice

GRID-TIED PV INVERTER

Grid-Tied SNV-GT-SM SINGLE MPPT



DIMENSION

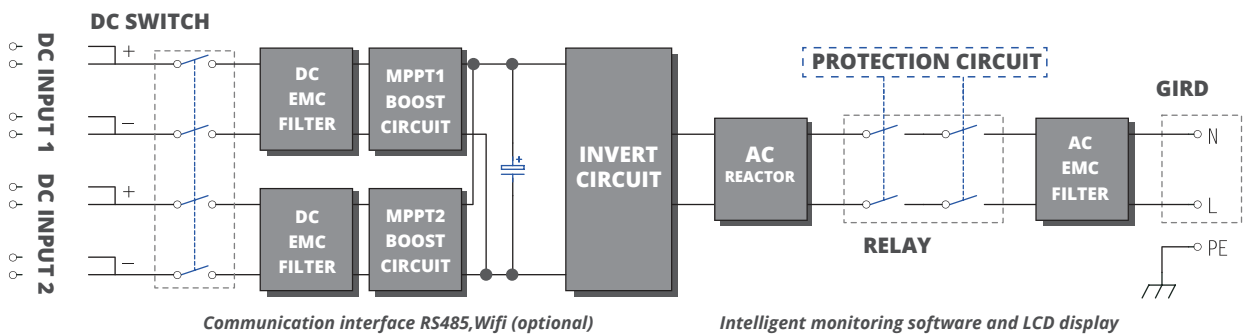
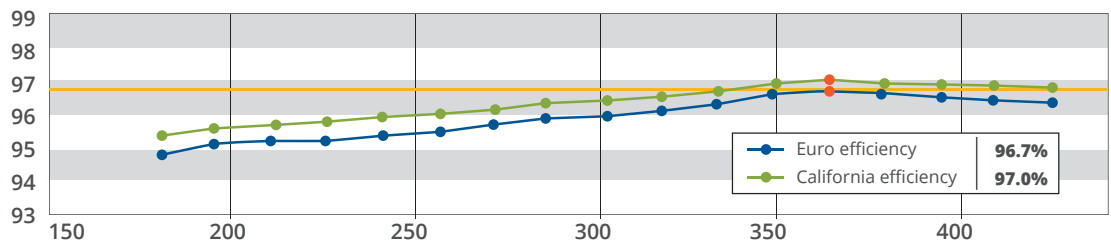
D x W x H 170 x 335 x 580

SNV-GT-DM 5 KW



Feature Highlights:

- Transformer-less design and compact in size
- IP65 Protection Class
- Double MPPT Design for application demand
- Firmware is upgradeable via RS232 Port
- Optional DC switch available
- Comply with latest VDE AR N1405 standard
- MPPR Efficiency > 99.9%
- Maximum Efficiency > 97.6%
- Mimic LCD Display
- Versatile communication interface options, standard RS485 port and external WiFi and Ethernet devices.
- Monitoring software offers operational status and electricity generated data.



GRID-TIED PV INVERTER

Grid-Tied SNV-GT-DM TECHNICAL SPECIFICATION

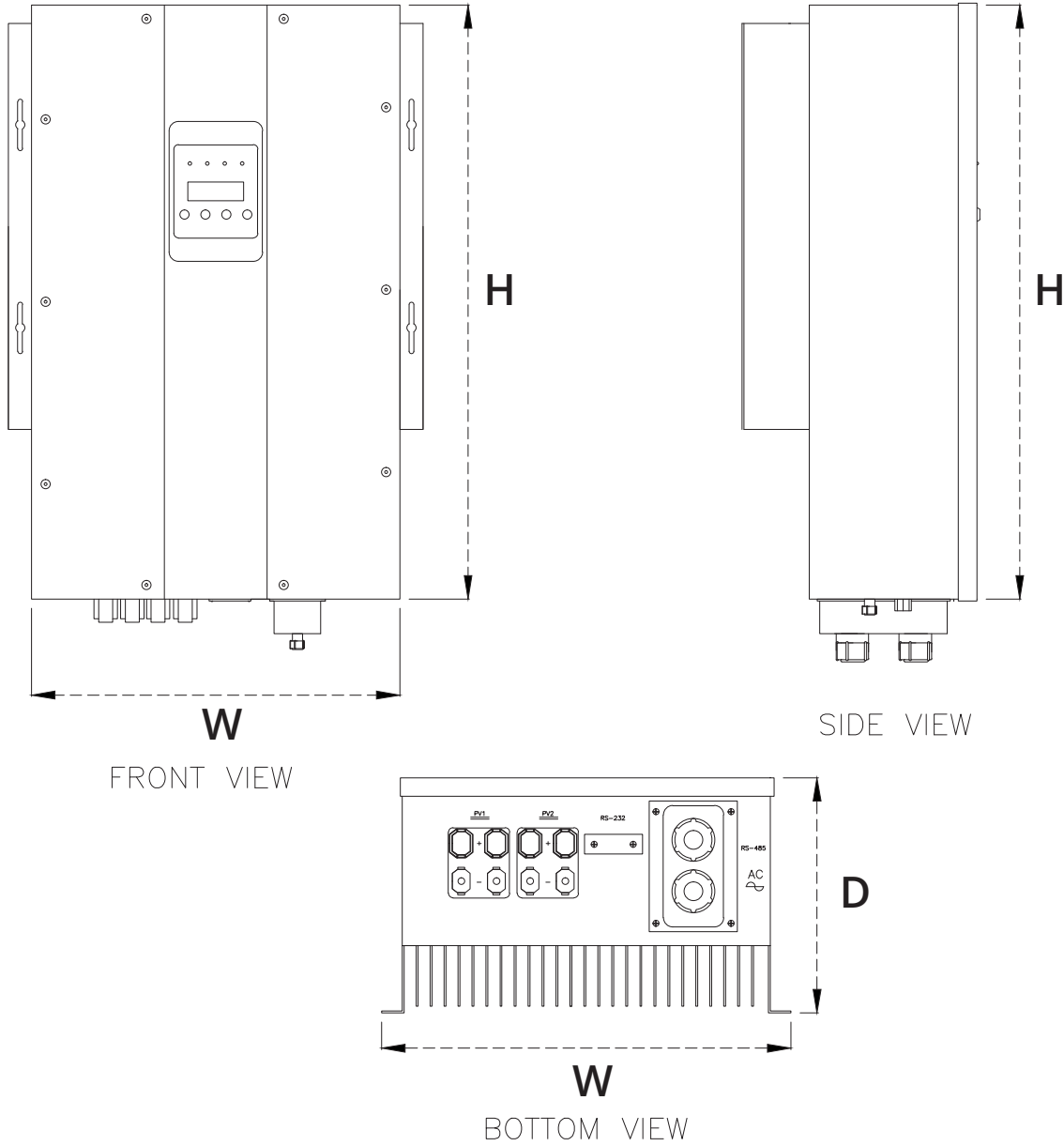
| MODEL | | SNV-GT-5001DM |
|---|--|---|
| INPUT | | |
| MAX. DC INPUT POWER | | 5.5 KW |
| MAX. DC INPUT VOLTAGE | | 600 Vdc |
| MPPT TRACKING VOLTAGE RANGE | | 150 ~ 500 Vdc |
| NUMBER OF MPPT TRACKING | | 2 |
| STRINGS OF MPPT TRACKING | | 2 |
| MAX. INPUT CURRENT <i>for each tracking</i> | | 15 A x 2 |
| OUTPUT | | |
| RATED OUTPUT POWER | | 5 KW |
| MAX. AC OUTPUT POWER | | 5.1 KW |
| RATED OUTPUT VOLTAGE | | 230 Vac |
| OUTPUT VOLTAGE RANGE | | 230 Vac±20% |
| GRID FREQUENCY RANGE | | 50/60Hz (±5Hz), (adjustable) |
| RATED OUTPUT CURRENT | | 21.7 A |
| MAX. OUTPUT CURRENT | | 24 A |
| POWER FACTOR (COS ϕ) | | 0.9 leading - 0.9 lagging |
| THDi | | <2% |
| SYSTEM FEATURES | | |
| MAX. EFFICIENCY | | 97.6% |
| EURO EFFICIENCY | | 96.8% |
| MPPT EFFICIENCY | | >99.9% |
| STANDBY (NIGHT TIME) LOSSES | | <0.2W |
| DC SWITCH | | Optional |
| COMMUNICATION INTERFACE | | RS485 standard, external WiFi or Ethernet (optional) |
| ENVIRONMENTAL | | |
| OPERATING TEMPERATURE | | -20°C~ +60°C |
| HUMIDITY RANGE | | 0 ~ 95% (non-condensing) |
| ALTITUDE | | 2000m |
| NOISE LEVEL | | <25dB |
| PROTECTION RATING | | IP65 |
| PHYSICAL | | |
| DIMENSION W x H x D (mm) | | 395 X 637 X 180 |
| SHIPPING WEIGHT (KG) | | 25.8 |
| STANDARDS | | |
| SAFETY | | IEC/EN62109-1,IEC/EN62109-2,VDE0126-1-1, VDE AR N4105, G83/56/EEG2012, AS3100/4777,CEI 0-21, CNCA/CTS0006:2010,CNCA/CTS0004:2009A,etc |
| EMC | | EN61000-6-2, EN61000-6-3,etc |

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GRID-TIED PV INVERTER

Grid-Tied SNV-GT-DM

DOUBLE MPPT



DIMENSION

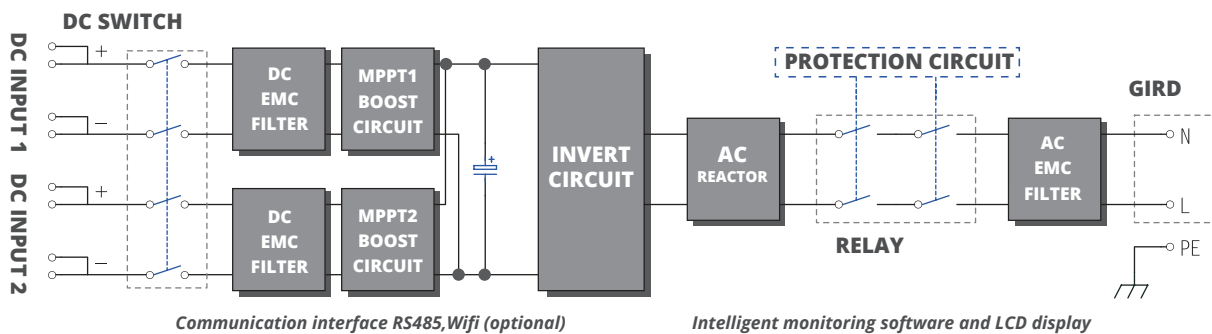
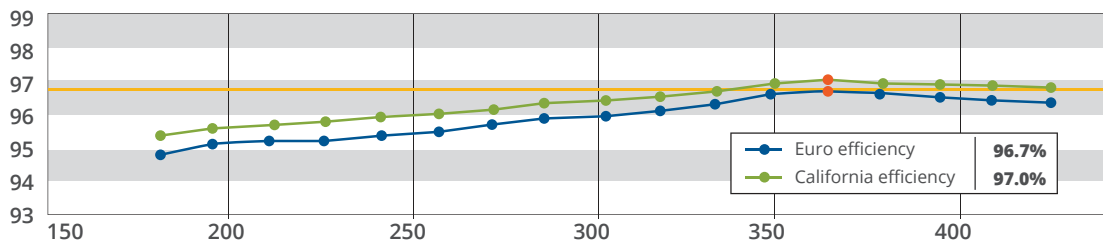
D x W x H 180 x 395 x 637mm

SNV-GT-DM 10 - 20 KW



Feature Highlights:

- Transformer-less design and compact in size
- IP65 Protection Class
- Double MPPT Design for application demand
- Firmware is upgradeable via RS232 Port
- Optional DC switch available
- Comply with latest VDE AR N1405 standard
- MPPR Efficiency > 99.9%
- Maximum Efficiency > 97.6%
- Mimic LCD Display
- Versatile communication interface options, standard RS485 port and external WiFi and Ethernet devices.
- Monitoring software offers operational status and electricity generated data.



GRID-TIED PV INVERTER

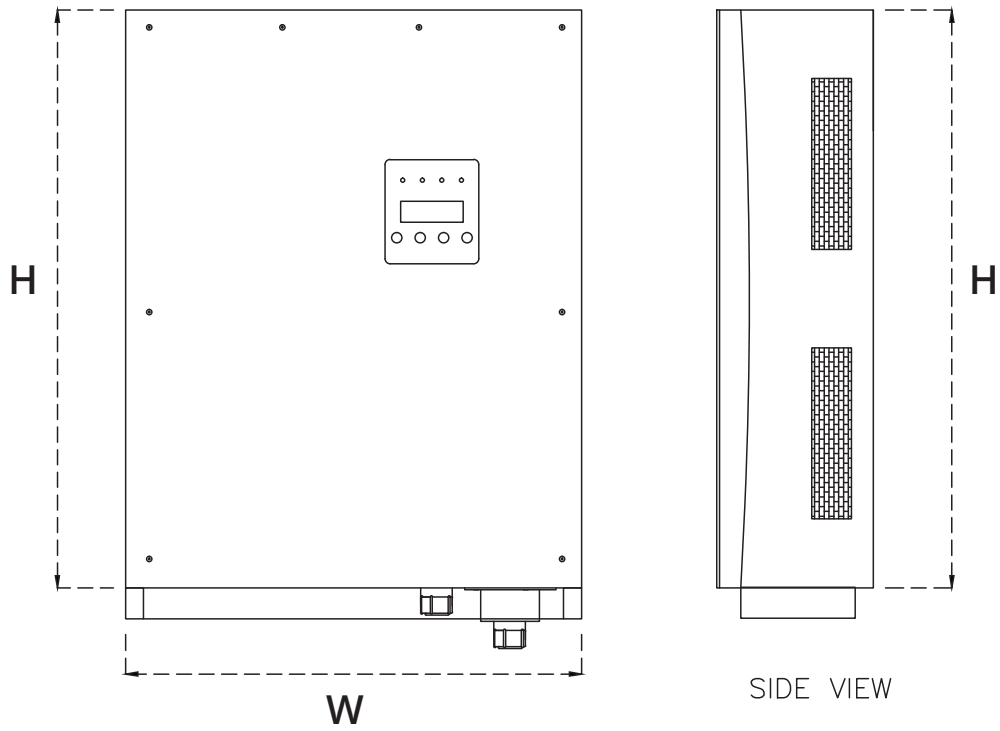
Grid-Tied SNV-GT-DM TECHNICAL SPECIFICATION

| MODEL | SNV-GT-1002DM | SNV-GT-1502DM | SNV-GT-1702DM | SNV-GT-2002DM |
|---|---|---------------|---------------|---------------|
| INPUT | | | | |
| MAX. DC INPUT POWER | 11.5 KW | 16.5 KW | 18.5 KW | 22.5 KW |
| MAX. DC INPUT VOLTAGE | 1000 Vdc | | | |
| MPPT TRACKING VOLTAGE RANGE | 250 ~ 950 Vdc | | | |
| NUMBER OF MPPT TRACKING | 2 | | | |
| STRINGS OF MPPT TRACKING | 1 | 2 | | |
| MAX. INPUT CURRENT <i>for each tracking</i> | 13 A x 2 | 21 A x 2 | | |
| OUTPUT | | | | |
| RATED OUTPUT POWER | 10 KW | 15 KW | 17 KW | 20 KW |
| MAX. AC OUTPUT POWER | 11 KW | 16 KW | 18 KW | 22 KW |
| RATED OUTPUT VOLTAGE | 400 Vac | | | |
| OUTPUT VOLTAGE RANGE | 400 Vac±20% | | | |
| GRID FREQUENCY RANGE | 50/60Hz (±5Hz), (adjustable) | | | |
| MAX. OUTPUT CURRENT | 17 A | 24 A | 27 A | 32 A |
| POWER FACTOR (COS Φ) | 0.8 leading-0.8 lagging | | | |
| THDi | <2% | | | |
| SYSTEM FEATURES | | | | |
| MAX. EFFICIENCY | > 98.0% | | | |
| EURO EFFICIENCY | > 97.5% | > 97.7% | | |
| MPPT EFFICIENCY | >99.9% | | | |
| STANDBY (NIGHT TIME) LOSSES | <0.2W | | | |
| DC SWITCH | Optional | | | |
| COMMUNICATION INTERFACE | RS485 standard, external WiFi or Ethernet (optional) | | | |
| ENVIRONMENTAL | | | | |
| OPERATING TEMPERATURE | -25°C~ +60°C | | | |
| HUMIDITY RANGE | 0 ~ 95% (non-condensing) | | | |
| ALTITUDE | 2000m | | | |
| NOISE LEVEL | <40dB (1 meter from surface) | | | |
| PROTECTION RATING | IP65 | | | |
| PHYSICAL | | | | |
| DIMENSION W x H x D (mm) | 550 X 700 X 250 | | | |
| SHIPPING WEIGHT (KG) | 35 | 39 | | |
| STANDARDS | | | | |
| SAFETY | IEC/EN62109-1,IEC/EN62109-2,VDE0126-1-1, VDE AR N4105, G83/56/EEG2012, AS3100/4777,CEI 0-21, CNCA/CTS0006:2010,CNCA/CTS0004:2009A,etc | | | |
| EMC | EN61000-6-2, EN61000-6-3,etc | | | |

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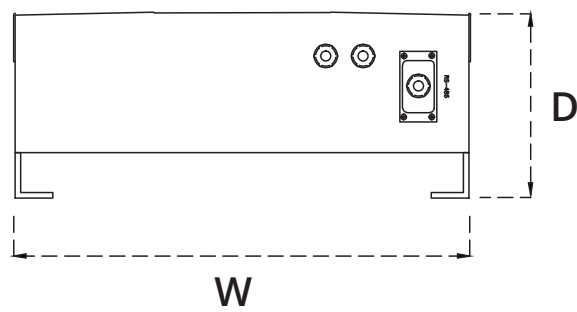
GRID-TIED PV INVERTER

SNV-GT-DM



FRONT VIEW

SIDE VIEW



BOTTOM VIEW

DIMENSION

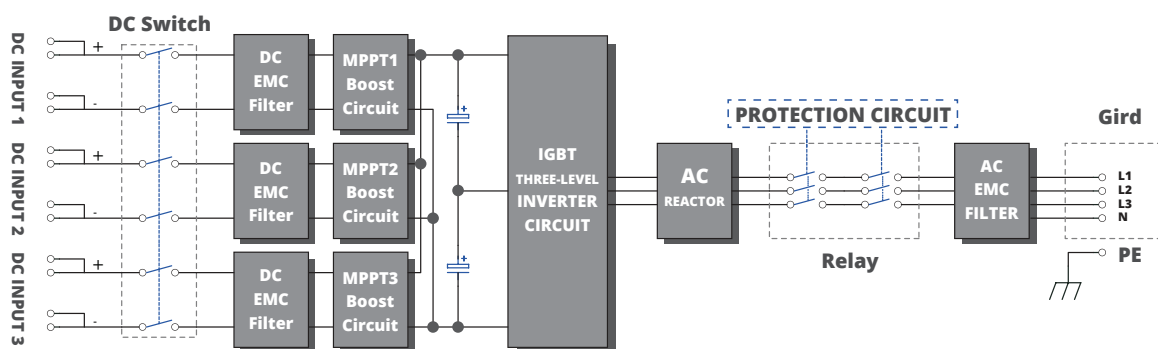
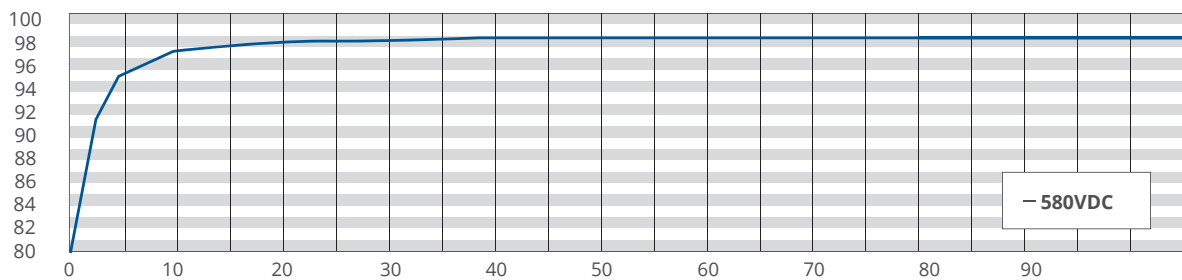
D x W x H 250 x 550 x 700mm

SNV-GT-TM 30 - 60 KW



Feature Highlights:

- MPPT efficiency >99.9%
- Maximum efficiency >98.2%
- Three independent MPP tracking gains optimal energy harvesting
- Low sensitivity to grid disturbances to avoid undesired disconnection from the grid
- Wide range of input voltage and operation environment
- Wide DC input range from 250V up to 850V
- Wide operating temperature range -20 C ~ 60 C
- IP65 harshest industrial protection for indoors and outdoors
- RS232/RS485/WiFi interfaces
- Easy-to-read LCD display with all operational status and monitored data



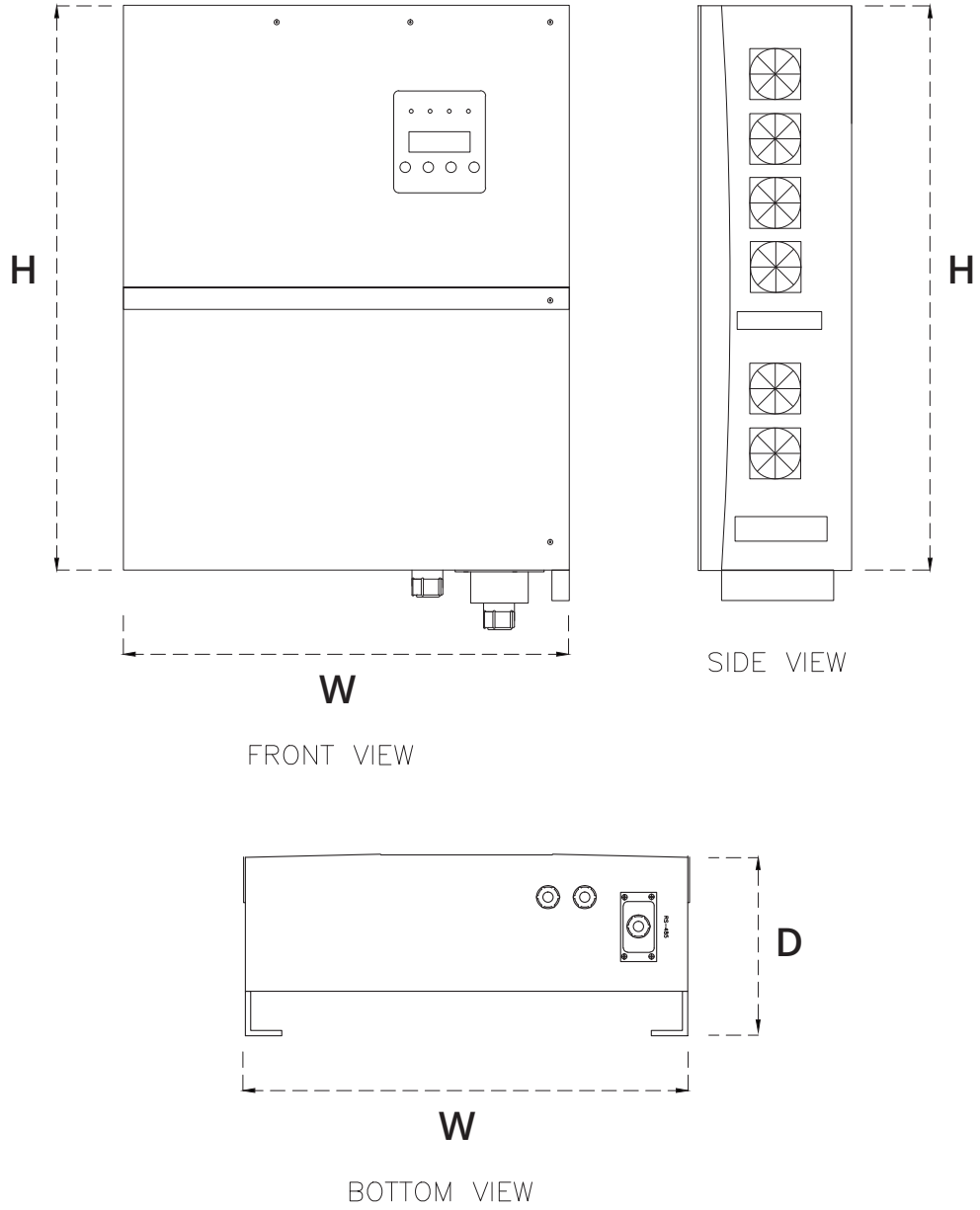
Communication interface RS485,Wifi (optional)

Intelligent monitoring software and LCD display

SNV-GT-TM TECHNICAL SPECIFICATION

| MODEL | SNV-GT-3002TM | SNV-GT-5002TM | SNV-GT-6002TM |
|---|---|---------------|---------------|
| INPUT | | | |
| MAX. DC INPUT POWER | 33 KW | 55 KW | 66 KW |
| MAX. DC INPUT VOLTAGE | 1000Vdc | | |
| MPPT TRACKING VOLTAGE RANGE | 250 ~ 950Vdc (Rated voltage 620Vdc) | | |
| NUMBER OF MPPT TRACKING | 3 | | |
| STRINGS OF MPPT TRACKING | 2 | 4 | |
| MAX. INPUT CURRENT <i>for each tracking</i> | 26 A × 3 | 36 A × 3 | 40 A × 3 |
| OUTPUT | | | |
| RATED OUTPUT POWER | 30 KW | 50 KW | 60 KW |
| MAX. AC OUTPUT POWER | 32 KW | 52 KW | 62 KW |
| RATED OUTPUT VOLTAGE | 400 Vac | 400 Vac | |
| OUTPUT VOLTAGE RANGE | 400Vac±20% | 400Vac±20% | |
| AC OUTPUT TOPOLOGY | 3Ph+N+PE, Transformer-less | | |
| GRID FREQUENCY RANGE | 50/60Hz (±5Hz), (adjustable) | | |
| RATED OUTPUT CURRENT | 44 A | 72 A | 87 A |
| MAX. OUTPUT CURRENT | 48 A | 75 A | 90 A |
| POWER FACTOR (COS Φ) | 0.8 leading ~ 0.8 lagging | | |
| THDi | <2% | | |
| SYSTEM FEATURES | | | |
| MAX. EFFICIENCY | > 98.3% | > 98.6% | |
| EURO EFFICIENCY | > 98.0% | > 98.2% | |
| MPPT EFFICIENCY | 99.9% | | |
| STANDBY (NIGHT TIME) LOSSES | <2 W | | |
| COOLING | Forced air cooling | | |
| DC SWITCH | Optional | | |
| COMMUNICATION INTERFACE | RS485 standard, external WiFi or Ethernet (optional) | | |
| ENVIRONMENTAL | | | |
| OPERATING TEMPERATURE | -25°C ~ +60°C | | |
| HUMIDITY RANGE | 0 ~ 95% (non-condensing) | | |
| ALTITUDE | 2000m | | |
| NOISE LEVEL | <40dB | <60dB | |
| PROTECTION RATING | IP65 | | |
| PHYSICAL | | | |
| DIMENSION W x H x D (mm) | 636 X 958 X 260 | | |
| SHIPPING WEIGHT (KG) | 61 | 68 | 69 |
| STANDARDS | | | |
| SAFETY | IEC/EN62109-1, IEC/EN62109-2, VDE0126-1-1, VDE AR N4105, G83/59/EEG2012, AS3100/4777, CEI 0-21, etc | | |
| EMC | EN61000-6-2, EN61000-6-3, EN61000-3-11, EN61000-3-12, etc | | |

SNV-GT-TM



DIMENSION

D x W x H 260 x 636 x 958mm

WiFi Data Logger

ICA SolarWiFi Kit is suitable for homes and office building where network is available. A WiFi module is integrated in the data logger, enabling data transmission via WiFi network. No additional wiring or software is required for simplifying installation and reducing costs for users. Furthermore, an independent web server is integrated in the data logger, which enables users to directly to the WiFi Access Point of the data logger and to check the performance and yield of the inverter even without any outer network.

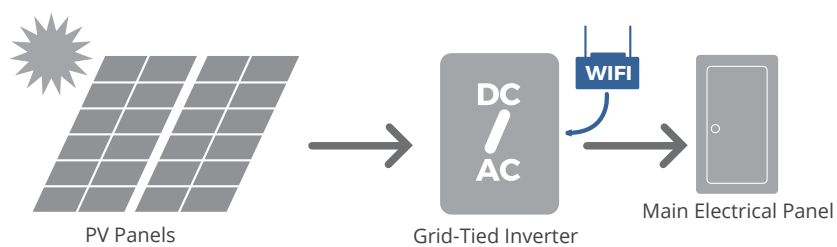


Features:

- Compatible with most inverters on the market
- Can be connected to up to 64 inverters
- Devices such as combiner box, electric meter and weather station, etc. can be connected
- Two communication methods available, including Ethernet and WiFi
- Data storage of over 25 years
- Check real-time data of data logger and inverter via embedded Web Server
- Dual mode of local monitoring and remote monitoring

WiFi Data Logger
TECHNICAL SPECIFICATION

| MODEL | | SNV-WE015 | |
|---------------------------|---|--------------------------------------|---|
| GENERAL | | ELECTRICAL | |
| Max. Number Of Inverters | 1-64 | Input Voltage | DC 5V |
| Inverter Communication | RS485/422/232 | Static Power Consumption | <1.6W |
| Remote To Communication | WiFi (802.11 b/g/n) Ethernet | Max. Instantaneous Power Consumption | <2.5W |
| Max. Communication Range | <1 KM | | |
| Communication Rate | 1200-19200bps (Adjustable) | ENVIRONMENTAL | |
| Wifi Frequency | 2.4 GHz | Operating Temperature | -10 +65 C |
| Wifi Communication Range | 400m in outdoor open area without obstruction | Operating Humidity | 10% - 90% Relative humidity no condensation |
| Wifi Transmitting Power | 802.11b/g/n:+20dBm/+18dBm/15dBm (Max) | Storage Temperature | -40 +85 C |
| | | Storage Humidity | <40% |
| Data Collection Intervals | 5 minutes (Default)/ 1-15 minutes (Optional) | Protection Class | IP21 |
| | | PHYSICAL | |
| Memory | SD Card/EEPROM(Optional) | Dimension (Lxwxh) | 110mm* 80mm*26mm |
| Preferences Setting | Web Server/Serial AT Instruction | Weight | 1089 |
| Firmware Updates | Serial/Wireless | OTHER | |
| Data Access | Serial/WiFi point-to-point/ Remote server | Installation Method | wall mounted or flawise |
| | | Certificates | FCC, CE, RoHS |
| Status Display | 4LEDs | | |



* WiFi Data Logger is connected to the Grid Tied Inverter using RJ45 communication cable