



SMG POWER SOLUTION

WELCOME SUN TO HOME

Semi-Integrated Lights





9W-120W

Semi-Integrated Solar Light

| Product Code | Wattage | Battery Details | Solar Panel |
|---------------------|---------|-----------------|-------------|
| SMG PR009WSISSTLAH0 | 9W | 12.8V/6Ah LPF | 40W |
| SMG PR012WSISSTLAH0 | 12/15W | 12.8V/12Ah LPF | 50W |
| SMG PR020WSISSTLAH0 | 18/20W | 12.8V/18Ah LPF | 60W |
| SMG PR024WSISSTLAH0 | 24W | 12.8V/18Ah LPF | 80W |
| SMG PR030WSISSTLAH0 | 30W | 12.8V/24Ah LPF | 80W |
| SMG PR040WSISSTLAH0 | 36-40W | 12.8V/36Ah LPF | 100W |

| | | | |
|---------------------|------|----------------|------|
| SMG PR050WSISSTLAH0 | 50W | 12.8V/42Ah LPF | 140W |
| SMG PR060WSISSTLAH0 | 60W | 12.8V/54Ah LPF | 160W |
| SMG PR080WSISSTLAH0 | 80W | 12.8V/72Ah LPF | 180W |
| SMG PR100WSISSTLAH0 | 100W | 12.8V/72Ah LPF | 200W |
| SMG PR120WSISSTLAH0 | 120W | 12.8V/96Ah LPF | 240W |

Integrated Lights



9W to 100W

| Product Code | Wattage | Battery Details | Solar Panel |
|----------------------|---------|-----------------|-------------|
| SMG PR09WISSTLAH000 | 9W | 12.8V/6Ah LPF | 30W |
| SMG PR12WISSTLAH000 | 12W | 12.8V/12Ah LPF | 40W |
| SMG PR15WISSTLAH000 | 15W | 12.8V/12Ah LPF | 40W |
| SMG PR18WISSTLAH000 | 18-20W | 12.8V/18Ah LPF | 50W |
| SMG PR24WISSTLAH000 | 24W | 12.8V/18Ah LPF | 60W |
| SMG PR30WISSTLAH000 | 30W | 12.8V/24Ah LPF | 60W |
| SMG PR40WISSTLAH000 | 40W | 12.8V/36Ah LPF | 80W |
| SMG PR50WISSTLAH000 | 50W | 12.8V/42Ah LPF | 100W |
| SMG PR60WISSTLAH000 | 60W | 12.8V/54Ah LPF | 120W |
| SMG PR80WISSTLAH000 | 80W | 12.8V/72Ah LPF | 160W |
| SMG PR100WISSTLAH000 | 100W | 12.8V/96Ah LPF | 200W |

High-Mask Solar Lights



Flood Light



Street Light

| Product Code | Wattage | Battery Details | Solar Panel |
|--------------|---------|-----------------|-------------|
| SMG PR090W | 90W | 25.6V/60Ah LPF | 260W |
| SMG PR120W | 120W | 25.6V/72Ah LPF | 300W |
| SMG PR150W | 75W*2 | 25.6V/84Ah LPF | 400W |
| SMG PR180W | 90W*2 | 25.6V/120Ah LPF | 520W |
| SMG PR200W | 100W*2 | 12.8V/144Ah LPF | 580W |

Technical Specifications: Solar Light

- LED Light Lumens: 120/150lm/W.
- BIS Certified Battery- Yes.
- IEC Certified Solar MMPT Charge Controller- Yes.
- MNRE/BIS Approved Mono-crystalline Solar Panel-Yes.
- Charge Time: 5 to 7 Hours Good Sunshine.
- Backup Time: 2 Days autonomy.
- Easy to Install & Ready to use.
- LED Dispersion angle- 120°/145°.
- Light mounting height-4m to 8m above ground depending on LED Wattage.
- Humidity Range-0 to 95% (non-condensing).
- Temperature range-0 to 60 °C.

| LED Indication | Condition |
|----------------------|---------------------------|
| RED: Continuous On | Battery full discharged. |
| GREEN: LED Blink | Battery in charging mode. |
| GREEN: Continuous On | Battery fully charged. |

Protections:-

- Solar Charger controller rating -5A/10A/15A/25A.
 - LED Driver efficiency- >95% (Battery to Load).
 - Battery Reverses Polarity Protection- Yes.
 - Solar Panel Reverse Polarity Protection- Yes.
 - Load Short Circuit Protection-Yes.
 - Battery Low Load Disconnection Yes.
 - Battery Full Cut-OFF- Yes.
 - Protection Grade (IP)-65- Yes.
 - Over Temperature Protection-75- Yes.
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Hybrid Solar Inverter

SMG HF 3500-24

SMG HF310-48

SMG H300 4 PLUS



Features

- Single-phase hybrid solar inverter.
- Support lithium battery charging and discharging management.
- Optional Wi-Fi module, supports remote App monitoring.
- Highly integrated plug.
- Maximum efficiency increased 98.7%.
- Seamlessly enable backup power.
- Easy to install and maintain.
- Support lithium battery adaptive.
- 5 years warranty.

Input Parameters

| | |
|-------------------------|-------------------------------------|
| Voltage | : 240V |
| Frequency | : 50/60Hz |
| Efficiency | : 93% |
| Working Temperature | : -10° to 50°C |
| Storage Temperature | : -15° to 60°C |
| Communication Interface | : RS232/RS485/ CAN / Dry contact |

Output Parameters

| | |
|-----------------------|---|
| AC Stabilized Voltage | : 230V AC (+/-5%) |
| Surge Power | : 7KVA/11KVA/16KVA |
| Switching Time | : 10ms for PC / 20ms for Home appliances |
| Waveform | : Pure sine wave |

Technical Parameters

| Sr.No | Model | Rated power | Max. Photo-voltaic Power | Max. PV Open Circuit Voltage | MPPT Range & Working Voltage | Max. PV charging Current | Max. AC Charging Current |
|-------|------------------------|---------------|--------------------------|------------------------------|------------------------------|--------------------------|--------------------------|
| 1 | SMG PR HF 3500-24 | 3500VA /3500W | 3500W | 500V | 120~450V DC | 100A | 60A |
| 2 | SMG PR HF 5500-48 | 5500VA /5500W | 5500W | 500V | 120~450V DC | 100A | 60A |
| 3 | SMG PR HF 8000-48 Plus | 8000VA /8000W | 8000W | 500V | 120~450V DC | 120A | 120A |

Three Phase On-Grid Inverter Datasheet

Three Phase String Inverter



SMG 5.0K-3P | SMG 6.0K-3P | SMG 8.0K-3P | SMG 10K-3P | SMG 12K-3P

- Zero Export & VSG Application
- Low Start-Up Voltage of 80V
- Wide Output Voltage Range
- Inbuilt Wifi GPRS (Optional)
- Suited for Outdoor
- **BIS Certified 10 Years Warranty**
- Easy to Service
- Cloud Based Monitoring

DC Input

| Parameter | SMG 5.0K-3P | SMG 6.0K-3P | SMG 8.0K-3P | SMG 10K-3P | SMG 12K-3P |
|--------------------------------|-------------|-------------|-------------|------------|------------|
| Start up DC Input Voltage(V) | 140 | 250 | 250 | 250 | 250 |
| MPPT Operating Range (v) | 120-1000 | 200-1000 | 200-1000 | 200-1000 | 200-1000 |
| MAX. DC Input Power (KW) | 6.5 | 7.8 | 10.4 | 13 | 15.6 |
| MAX. DC Input Voltage (v) | 1100 | 1100 | 1100 | 1100 | 1100 |
| Max DC Input Current (A) | 20+20 | 30+30 | 30+30 | 30+30 | 30+30 |
| Max Short Circuit Current(A) | 20+20 | 30+30 | 30+30 | 30+30 | 30+30 |
| No. of MPP Tracker | 2 | 2 | 2 | 2 | 2 |
| No. of strings per MPP Tracker | 1+1 | 1+1 | 1+1 | 1+1 | 1+1 |

AC Output

| Rated Output Power (KW) | 5 | 6 | 8 | 10 | 12 |
|------------------------------|---------|---------|-----------|-----------|-----------|
| Max. Active Power (kW) | 5.5 | 6.6 | 8.8 | 11 | 13.2 |
| Rated Ac Grid Output Current | 7.6/7.2 | 9.1/8.7 | 12.1/11.6 | 15.2/14.5 | 18.2/17.4 |
| Max. AC Output Current (A) | 8.3/8 | 10/9.6 | 13.3/12.7 | 16.7/15.9 | 20/19.1 |

- Rated Output Voltage/range (V): 400V AC (3P + N + E)
- Rated Grid Frequency (Hz): 50/60 (optional)
- Operating Phase: Three Phase
- Output Power Factor: 0.8 Leading to 0.8 lagging
- Total Harmonics Current Distortion (THDi): <0.3%
- DC Injection Current (mA): <0.5%
- Grid Frequency Range (Hz): 45-55

Efficiency

- Max. Efficiency (Inverter): 98.30%
- Euro Efficiency: 97.50%
- MPPT Efficiency: >99%

Protections

- DC Reverse - Polarity Protection
- AC Short Circuit Protection
- AC Output Overcurrent Protection
- Output Overvoltage Protection
- Insulation Resistance Protection
- Ground Fault Monitoring
- Anti-Islanding Protection
- Temperature Protection
- Integrated DC Switch
- Remote Software Upload
- Remote Change Operating Parameters
- Surge Protection (DC Type II / AC Type II)

Mechanical & Environmental

- Size(mm): 330W × 457H × 203D
- Colour Shade: #383636 & #716C
- Weight(kg): 11
- Topology: Transformerless
- Internal Consumption: <1W (Night)
- Operating Temperature: -25° to +60° C (derating above 45°)
- Ingress Protection: IP65
- Noise Emission (Typical): ≤30dB Natural Cooling
- Max. Operating Altitude Without Derating: 4000m
- Certifications: IEC 62116, IEC 61727, IEC60068-2-1,2,14,30,27,64, IEC 61683, IEC 61000 1/2, IEC 62109-1&2
- Humidity: 0-100% (Non Condensing)
- LCD1602
- RS485/RS232/Wifi/GPRS

Three Phase String Inverter



SMG 15K-3P | SMG 18K-3P | SMG 20K-3P | SMG 25K-3P

- Zero Export & VSG Application
- Low Start-Up Voltage of 80V
- Wide Output Voltage Range
- Inbuilt Wifi GPRS (Optional)
- Suited for Outdoor
- **BIS Certified 10 Years Warranty**
- Easy to Service
- Cloud Based Monitoring

DC Input

| Parameter | SMG 15K-3P | SMG 18K-3P | SMG 20K-3P | SMG 25K-3P |
|--------------------------------|------------|------------|------------|------------|
| MAX. DC Input Power (KW) | 19.5 | 23.4 | 26 | 32.5 |
| MAX. DC Input Voltage (v) | 1100 | 1100 | 1100 | 1100 |
| Start up DC Input Voltage(V) | 250 | 250 | 250 | 250 |
| MPPT Operating Range (v) | 200-1000 | 200-1000 | 200-1000 | 200-1000 |
| Max DC Input Current (A) | 20+26 | 26+26 | 26+26 | 26+26 |
| Max Short Circuit Current(A) | 30+39 | 39+39 | 39+39 | 39+39 |
| No. of MPP Tracker | 2 | 2 | 2 | 2 |
| No. of strings per MPP Tracker | 1+2 | 2+2 | 2+2 | 2+2 |

AC Output

| Rated Output Power (KW) | 15 | 18 | 20 | 25 |
|------------------------------|-----------|-----------|-----------|-----------|
| Max. Active Power (kW) | 16.5 | 19.8 | 22 | 27.5 |
| Rated Ac Grid Output Current | 22.7/21.7 | 27.3/26.1 | 30.3/29 | 37.9/36.2 |
| Max. AC Output Current (A) | 25/23.9 | 30/28.7 | 33.3/21.9 | 41.7/39.8 |

- Rated Output Voltage/range (V): 400V AC (3P + N + E)
- Rated Grid Frequency (Hz): 50/60 (optional)
- Operating Phase: Three Phase
- Output Power Factor: 0.8 Leading to 0.8 lagging
- Total Harmonics Current Distortion (THDi): <0.3%
- DC Injection Current (mA): <0.5%
- Grid Frequency Range (Hz): 45-55

Efficiency

| Parameter | Value |
|----------------------------|-----------------|
| Max. Efficiency (Inverter) | 98.50% / 98.60% |
| Euro Efficiency | 97.50% / 97.83% |
| MPPT Efficiency | >99% |

Protections

- DC Reverse - Polarity Protection
- AC Short Circuit Protection
- AC Output Overcurrent Protection
- Output Overvoltage Protection
- Insulation Resistance Protection
- Ground Fault Monitoring
- Anti-Islanding Protection
- Temperature Protection
- Integrated DC Switch
- Remote Software Upload
- Remote Change Operating Parameters
- Surge Protection (DC Type II / AC Type II)

Mechanical & Environmental

- Weight(kg): 15 / 20
- Size(mm): 283W × 463H × 178D / 362W × 527H × 220D
- Colour

SINGLE PHASE ON-GRID INVERTER DATASHEET

SMG 1.5K-1P | SMG 2.2K-1P | SMG 3.0K-1P | SMG 4.0K-1P | SMG 5.0K-1P | SMG 6.0K-1P

- BIS Certified – 10 Years Warranty
- Easy to Service
- Cloud Based Monitoring
- Zero Export & VSG Application
- Low Start-Up Voltage of 80V
- 20A String Current
- Suited for Outdoor
- Wide Output Voltage Range
- Inbuilt Wifi GPRS (Optional)

Technical Data

Input Side

| MODEL | SMG 1.5K-1P | SMG 2.2K-1P | SMG 3.0K-1P | SMG 4.0K-1P | SMG 5.0K-1P | SMG 6.0K-1P |
|-------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|
| MAX. DC Input Power (KW) | 2 | 2.9 | 3.9 | 5.2 | 6.5 | 7.8 |
| MAX. DC Input Voltage (V) | | | 550 | | | |
| Start up DC Input Voltage (V) | | | 80 | | | |
| MPPT Operating Range (V) | | | 70-500 | 70-500 | | |
| MAX DC Input Current (A) | | | 20 | 20 | | |
| MAX Short Circuit Current (A) | | | 30 | | | |
| No. Of MPP Tracker | | | 1 | | | |
| No. strings per MPP Tracker | | 1 | | | 2 | 2 |

Output Side

| MODEL | SMG 1.5K-1P | SMG 2.2K-1P | SMG 3.0K-1P | SMG 4.0K-1P | SMG 5.0K-1P | SMG 6.0K-1P |
|--------------------------------|------------------|------------------|------------------|------------------|-------------|-------------|
| Rated Output Power (KW) | 1.5 | 2.2 | 3 | 4 | 5 | 6 |
| MAX. Active Power (KW) | 1.65 | 2.42 | 3.3 | 4.4 | 5.5 | 6.6 |
| Rated Output Voltage/range (V) | | | 230V AC (L+N+E) | | | |
| Rated Grid Frequency (Hz) | 50/60 (Optional) | 50/60 (Optional) | 50/60 (Optional) | 50/60 (Optional) | | |
| Operating Phase | | | Single Phase | Single Phase | | |

| MODEL | SMG 1.5K-1P | SMG 2.2K-1P | SMG 3.0K-1P | SMG 4.0K-1P | SMG 5.0K-1P | SMG 6.0K-1P |
|-------------------------------|-------------|-------------|----------------------------|-------------|-------------|-------------|
| Rated Ac Gride Output Current | 6.5 | 9.6 | 13 | 17.4 | 22.8/21.8 | 27.3/26.1 |
| Max. AC Output Current (A) | 7.2 | 10.5 | 14.3 | 19.1 | 25/24 | 30/28.7 |
| Output Power Factor | | | 0.8 leading to 0.8 lagging | | | |

THDi

DC Injection Current (mA)

Grid Frequency Range (Hz)

45-55

Efficiency

| MODEL | SMG 1.5K-1P | SMG 2.2K-1P | SMG 3.0K-1P | SMG 4.0K-1P | SMG 5.0K-1P | SMG 6.0K-1P |
|----------------------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Max. Efficiency (Inverter) | 97.30% | 97.30% | 97.50% | 97.50% | 97.50% | 97.50% |
| Euro Efficiency | 97.10% | 97.10% | 97.30% | 97.30% | | 97.00% |
| MPPT Efficiency | | | >99% | | | |

Protections

- DC Reverse Polarity Protection
- AC Short Circuit Protection
- AC Output Overcurrent Protection
- Output Overvoltage Protection
- Insulation Resistance Protection
- Ground Fault Monitoring
- Anti-Islanding Protection
- Temprature Protection
- Integrated DC Switch
- Remorte Software Upload
- Remorte Change Operating Parameters
- Surge Protection (DC Type II / AC Type II)

General Data

| Parameter | Value |
|--------------------------|---|
| Size (mm) | 280W×310H×184D (SMG 1.5–3.0K) / 330W×323H×190D (SMG 4.0–6.0K) |
| Colour Shade | 383636 & 716C |
| Weight (kg) | 4.8 (SMG 2.2K) / 7.7 (SMG 5.0K) |
| Topology | Transformerless |
| Internal Consumption | |
| Operating Temperature | –25°C to +60°C (derating above 45°) |
| Ingress Protection | IP65 |
| Noise Emission (Typical) | ≤35dB |

| Parameter | Value |
|--|---|
| Cooling Type | Natural Cooling |
| Max. Operating Altitude Without Derating | 2000m (SMG 2.2K) / 3000m (SMG 5.0K) |
| Certifications | IEC 62116, IEC 61727, IEC60068-2-1,2,14,30,27,64, IEC 61683, IEC 61000 1/2, IEC 62109-1&2 |
| Humidity | 0–100% (Non Condensing) |
| Display | LCD1602 |
| Interface | RS485 / RS232 / Wifi / GPRS |



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