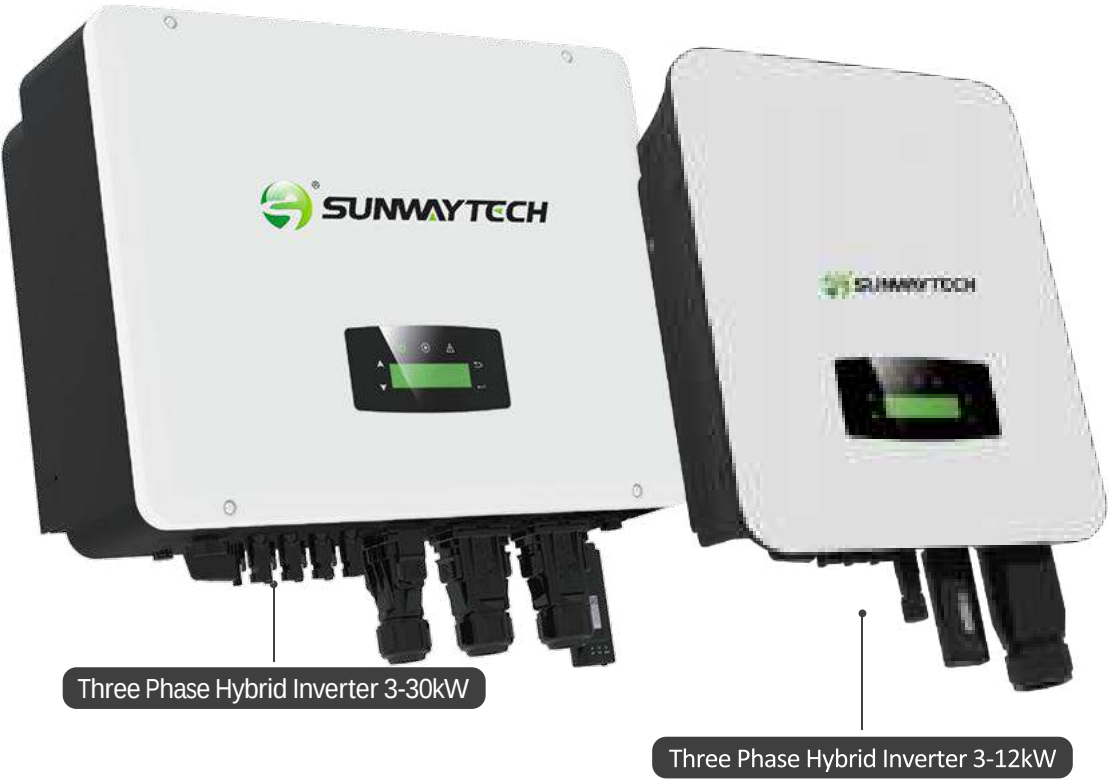


# Three Phase Hybrid Storage Inverter

## 3-30 kW



The Sunway HP3 series three phase storage inverters are designed to increase energy independence for homeowners and commercial users. The power range is from 3.0kW to 30kW, compatible with high voltage (150-800V) batteries.

Energy management is based on time-of-use and demand charge rate structures, significantly reduce the amount of energy purchased from public grid.

Thanks for the UPS function (switch time < 10ms), that enables the crucial loads power on during outages. Additionally, under the backup operation mode, the inverter provides you up to 150% peak output overloading.

|                                                                                                                                                |                                                                                                                                      |                                                                                                                                        |                                                                                                                                                                            |                                                                                                                                                              |                                                                                                                                                 |                                                                                                                            |
|------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| <br><b>SODIUM-ION BATTERY</b><br>Support sodium-ion battery | <br><b>WIDE RANGE</b><br>Voltage Range (150-800V) | <br><b>100% UNBALANCE</b><br>Support Unbalance Load | <br><b>Max. 1.5</b><br>1.5 Times PV Oversize                                            | <br><b>Max. 40A</b><br>MAX. 40A <sub>dc</sub><br>String Current Up To 40A | <br><b>&lt;10 ms</b><br>UPS FUNCTION<br>Switch Time < 10ms | <br><b>INPUT</b><br>Support Generator |
| Support for Time-of-use Optimization                        |                                                                                                                                      |                                                                                                                                        | Build in Anti-feed-in Function                                                          |                                                                                                                                                              |                                                                                                                                                 |                                                                                                                            |
| Configurable Operation Modes                                |                                                                                                                                      |                                                                                                                                        | 100% unbalanced output, each phase;<br>200% unbalanced output, each phase (Below 10kW)  |                                                                                                                                                              |                                                                                                                                                 |                                                                                                                            |
| AFCI (Optional) & Rapid Shutdown Ready                      |                                                                                                                                      |                                                                                                                                        | Smart Monitoring & Remote Firmware Upgrade                                              |                                                                                                                                                              |                                                                                                                                                 |                                                                                                                            |

# Three Phase Hybrid Storage Inverter

## 3-12 kW Plus Series



The Sunway three phase storage inverters plus series are designed to increase energy independence for homeowners and commercial users. The power range is from 3.0kW to 12kW, compatible with high voltage (80-600V and 120-650V) batteries.

Energy management is based on time-of-use and demand charge rate structures, significantly reduce the amount of energy purchased from public grid.

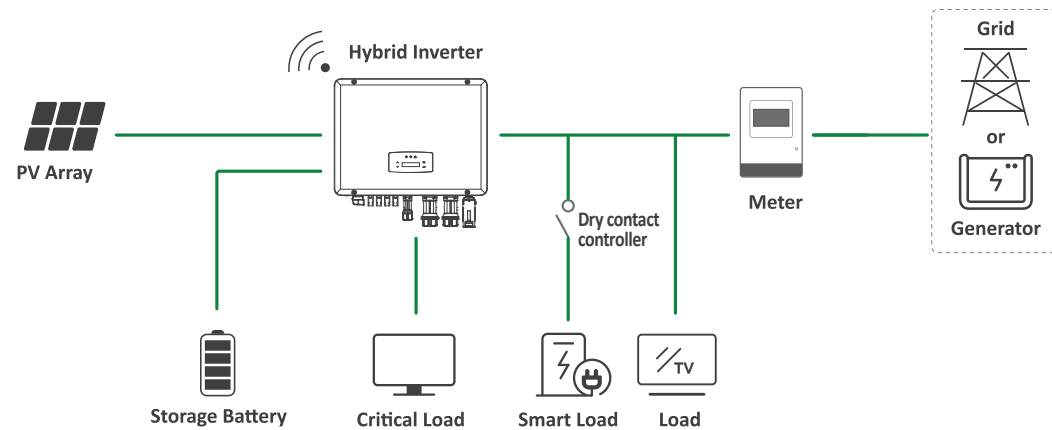
Thanks for the UPS function (switch time < 10ms), that enables the crucial loads power on during outages. Additionally, under the backup operation mode, the inverter provides you up to 150% peak output overloading.

|                                                                                                                                                  |                                                                                                                                         |                                                                                                                                               |                                                                                                                                                                              |                                                                                                                                   |                                                                                                                                                                |                                                                                                                                                 |
|--------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| <br><b>SODIUM-ION BATTERY</b><br>Support sodium-ion battery | <br><b>MIN. 80V</b><br>Battery Voltage Minimum 80V | <br><b>MAX. 50A</b><br>Max. Charge/Discharge Current 50A | <br><b>100% UNBALANCE</b><br>Support Unbalance Load                                     | <br><b>Max. 1.5</b><br>1.5 Times PV Oversize | <br><b>Max. 20A</b><br>MAX. 20A <sub>dc</sub><br>String Current Up To 20A | <br><b>&lt;10 ms</b><br>UPS FUNCTION<br>Switch Time < 10ms |
| Support for Time-of-use Optimization                        |                                                                                                                                         |                                                                                                                                               | Build in Anti-feed-in Function                                                          |                                                                                                                                   |                                                                                                                                                                |                                                                                                                                                 |
| Configurable Operation Modes                                |                                                                                                                                         |                                                                                                                                               | 100% unbalanced output, each phase;<br>200% unbalanced output, each phase (Below 10kW)  |                                                                                                                                   |                                                                                                                                                                |                                                                                                                                                 |
| AFCI (Optional) & Rapid Shutdown Ready                      |                                                                                                                                         |                                                                                                                                               | Smart Monitoring & Remote Firmware Upgrade                                              |                                                                                                                                   |                                                                                                                                                                |                                                                                                                                                 |

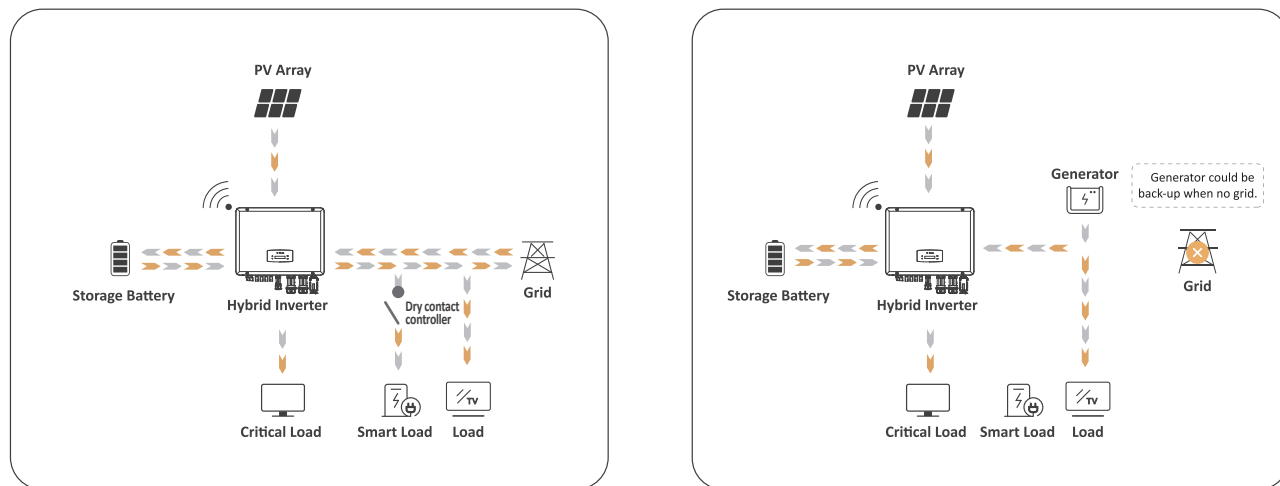
| ■ Technical Data                    | SW3KHP3EU2                                                                                   | SW4KHP3EU2  | SW5KHP3EU2  | SW6KHP3EU2  | SW8KHP3EU2      | SW10KHP3EU2  |
|-------------------------------------|----------------------------------------------------------------------------------------------|-------------|-------------|-------------|-----------------|--------------|
| PV Input                            |                                                                                              |             |             |             |                 |              |
| Max. DC Input Power (kW)            | 5                                                                                            | 6           | 7.5         | 9           | 12              | 15           |
| Max. PV Voltage (V)                 | 1000                                                                                         |             |             |             |                 |              |
| Rated DC Input Voltage (V)          | 620                                                                                          |             |             |             |                 |              |
| DC Input Voltage Range (V)          | 150-1000                                                                                     |             |             |             |                 |              |
| MPPT Voltage Range (V)              | 150-850                                                                                      |             |             |             |                 |              |
| Full MPPT Range(V)                  | 200-850                                                                                      |             |             | 250-850     | 300-850         | 500-850      |
| Start-up Voltage (V)                | 160                                                                                          |             |             |             |                 |              |
| Max. DC Input Current (A)           | 20x2                                                                                         |             |             |             |                 |              |
| Max. Short Current(A)               | 30x2                                                                                         |             |             |             |                 |              |
| No. of MPPT Tracker / Strings       | 2/2                                                                                          |             |             |             |                 |              |
| Battery Port                        |                                                                                              |             |             |             |                 |              |
| Battery Nominal Voltage (V)         | 200                                                                                          | 200         | 200         | 250         | 300             | 400          |
| Battery Voltage Range (V)           | 150-800                                                                                      |             |             |             |                 |              |
| Max. Charge/Discharge Current (A)   | 30                                                                                           |             |             |             |                 |              |
| Max. Charge/Discharge Power (kW)    | 3                                                                                            | 4           | 5           | 6           | 8               | 10           |
| Charging Curve                      | 3 Stages                                                                                     |             |             |             |                 |              |
| Compatible Battery Type             | Li-ion / Sodium-ion battery                                                                  |             |             |             |                 |              |
| AC Grid                             |                                                                                              |             |             |             |                 |              |
| Nominal AC Output Power (kW)        | 3                                                                                            | 4           | 5           | 6           | 8               | 10           |
| Max. AC Input/Output Power (kVA)    | 4.5 / 3.3                                                                                    | 6 / 4.4     | 7.5 / 5.5   | 9 / 6.6     | 12 / 8.8        | 15 / 11      |
| Max. AC Output Current (A)          | 5.3                                                                                          | 7           | 8.5         | 10.5        | 13.5            | 17           |
| Nominal AC Voltage (V)              | 230/400                                                                                      |             |             |             |                 |              |
| Nominal AC Frenquency (Hz)          | 50/60                                                                                        |             |             |             |                 |              |
| Power Factor                        | 1 (-0.8-0.8) adjustable                                                                      |             |             |             |                 |              |
| Current THD (%)                     | <3%                                                                                          |             |             |             |                 |              |
| AC Load Output (Back-up)            |                                                                                              |             |             |             |                 |              |
| Nominal Output Power (VA)           | 3000                                                                                         | 4000        | 5000        | 6000        | 8000            | 10000        |
| Nominal Output Voltage (V)          | 230/400                                                                                      |             |             |             |                 |              |
| Nominal Output Frequency (Hz)       | 50/60                                                                                        |             |             |             |                 |              |
| Nominal Output Current (A)          | 4.4                                                                                          | 5.8         | 7.3         | 8.7         | 11.6            | 14.5         |
| Peak Output Power                   | 3300VA, 60s                                                                                  | 4400VA, 60s | 5500VA, 60s | 6600VA, 60s | 8800VA, 60s     | 11000VA, 60s |
| THDV (with linear load)             | <3%                                                                                          |             |             |             |                 |              |
| Switching Time (ms)                 | <10                                                                                          |             |             |             |                 |              |
| Efficiency                          |                                                                                              |             |             |             |                 |              |
| Europe Efficiency                   | 97.50%                                                                                       |             |             |             |                 |              |
| Max. Efficiency                     | 98.00%                                                                                       |             |             |             | 98.20%          |              |
| Battery Charge/Discharge Efficiency | 98.00%                                                                                       |             |             |             |                 |              |
| Protection                          |                                                                                              |             |             |             |                 |              |
| Reverse Polarity Protection         | Yes                                                                                          |             |             |             |                 |              |
| Over Current / Voltage Protection   | Yes                                                                                          |             |             |             |                 |              |
| Anti-islanding Protection           | Yes                                                                                          |             |             |             |                 |              |
| AC Short-circuit Protection         | Yes                                                                                          |             |             |             |                 |              |
| Leakage Current Detection           | Yes                                                                                          |             |             |             |                 |              |
| Ground Fault Monitoring             | Yes                                                                                          |             |             |             |                 |              |
| Grid Monitoring                     | Yes                                                                                          |             |             |             |                 |              |
| Enclosure Protect Level             | IP65                                                                                         |             |             |             |                 |              |
| General Data                        |                                                                                              |             |             |             |                 |              |
| Dimensions (W x H x D, mm)          | 370 x 497 x 192 / 558 x 535 x 260 mm                                                         |             |             |             |                 |              |
| Weight (kg)                         | 20.8 / 29kg                                                                                  |             |             |             |                 |              |
| Topology                            | Transformerless                                                                              |             |             |             |                 |              |
| Cooling Concept                     | Natural Convection                                                                           |             |             |             | Intelligent Fan |              |
| Relative Humidity                   | 0-100%                                                                                       |             |             |             |                 |              |
| Operating Temperature Range (°C)    | -25 to 60 °C                                                                                 |             |             |             |                 |              |
| Operating Altitude (m)              | <4000                                                                                        |             |             |             |                 |              |
| Noise Emission (dB)                 | <30                                                                                          |             |             |             |                 |              |
| Standby Consumption (W)             | <5                                                                                           |             |             |             |                 |              |
| Display & Communication Interfaces  | LCD, LED, RS485, CAN, Wi-Fi, GPRS, 4G                                                        |             |             |             |                 |              |
| Certification & Approvals           | NRS097, G98/G99, EN50549-1, C10/C11, AS4777.2, VDE-AR-N4105, VDE0126, IEC62109-1, IEC62109-2 |             |             |             |                 |              |
| EMC                                 | EN61000-6-2, EN61000-6-3                                                                     |             |             |             |                 |              |

| ■ Technical Data                    |                                                                                              | SW12KHP3EU2  | SW15KHP3EU2        | SW17KHP3EU2  | SW20KHP3EU2  | SW25KHP3EU2  | SW30KHP3EU2 |
|-------------------------------------|----------------------------------------------------------------------------------------------|--------------|--------------------|--------------|--------------|--------------|-------------|
| PV Input                            |                                                                                              |              |                    |              |              |              |             |
| Max. DC Input Power (kW)            | 18                                                                                           | 22.5         | 25.5               | 30           | 37.5         | 45           |             |
| Max. PV Voltage (V)                 | 1000                                                                                         |              |                    |              |              |              |             |
| Rated DC Input Voltage (V)          | 620                                                                                          |              |                    |              |              |              |             |
| DC Input Voltage Range (V)          | 150 - 1000                                                                                   |              |                    |              |              |              |             |
| MPPT Voltage Range (V)              | 150 - 850                                                                                    |              |                    |              |              |              |             |
| Full MPPT Range(V)                  | 500 - 850                                                                                    |              |                    |              |              |              |             |
| Start-up Voltage (V)                | 160                                                                                          |              |                    |              |              |              |             |
| Max. DC Input Current (A)           | 20 x 2                                                                                       | 20 + 32      | 32 x 2             | 40 x 2       |              |              |             |
| Max. Short Current(A)               | 30 x 2                                                                                       | 30 + 48      | 48 x 2             | 60 x 2       |              |              |             |
| No. of MPPT Tracker / Strings       | 2/2                                                                                          | 2/3          | 2/4                | 2/4          |              |              |             |
| Battery Port                        |                                                                                              |              |                    |              |              |              |             |
| Battery Nominal Voltage (V)         | 450                                                                                          | 500          | 400                | 500          | 500          | 550          |             |
| Battery Voltage Range (V)           | 150 - 800                                                                                    |              |                    |              |              |              |             |
| Max. Charge/Discharge Current (A)   | 30                                                                                           | 50           | 50                 | 50           | 60           | 60           |             |
| Max. Charge/Discharge Power (kW)    | 12                                                                                           | 15           | 17                 | 20           | 25           | 30           |             |
| Charging Curve                      | 3 Stages                                                                                     |              |                    |              |              |              |             |
| Compatible Battery Type             | Li-ion / Sodium-ion battery                                                                  |              |                    |              |              |              |             |
| AC Grid                             |                                                                                              |              |                    |              |              |              |             |
| Nominal AC Output Power (kW)        | 12                                                                                           | 15           | 17                 | 20           | 25           | 30           |             |
| Max. AC Input/Output Power (kVA)    | 18 / 13.2                                                                                    | 22.5 / 16.5  | 25.5 / 18.7        | 30 / 22      | 37.5 / 27.5  | 45 / 33      |             |
| Max. AC Output Current (A)          | 21.5                                                                                         | 27           | 30                 | 32           | 40           | 48           |             |
| Nominal AC Voltage (V)              | 230 / 400                                                                                    |              |                    |              |              |              |             |
| Nominal AC Frenquency (Hz)          | 50 / 60                                                                                      |              |                    |              |              |              |             |
| Power Factor                        | 1 ( -0.8 - 0.8 ) adjustable                                                                  |              |                    |              |              |              |             |
| Current THD (%)                     | < 3 %                                                                                        |              |                    |              |              |              |             |
| AC Load Output (Back-up)            |                                                                                              |              |                    |              |              |              |             |
| Nominal Output Power (VA)           | 12000                                                                                        | 15000        | 17000              | 20000        | 25000        | 30000        |             |
| Nominal Output Voltage (V)          | 230 / 400                                                                                    |              |                    |              |              |              |             |
| Nominal Output Frequency (Hz)       | 50 / 60                                                                                      |              |                    |              |              |              |             |
| Nominal Output Current (A)          | 17.4                                                                                         | 21.8         | 24.7               | 29           | 36.3         | 43.5         |             |
| Peak Output Power                   | 13200VA, 60s                                                                                 | 16500VA, 60s | 18700VA, 60s       | 22000VA, 60s | 27500VA, 60s | 33000VA, 60s |             |
| THDV (with linear load)             | < 3 %                                                                                        |              |                    |              |              |              |             |
| Switching Time (ms)                 | < 10                                                                                         |              |                    |              |              |              |             |
| Efficiency                          |                                                                                              |              |                    |              |              |              |             |
| Europe Efficiency                   | 97.50%                                                                                       |              | 97.80%             |              | 98.00%       | 98.10%       |             |
| Max. Efficiency                     | 98.30%                                                                                       |              |                    |              | 98.50%       |              |             |
| Battery Charge/Discharge Efficiency | 98.00%                                                                                       |              |                    |              |              |              |             |
| Protection                          |                                                                                              |              |                    |              |              |              |             |
| Reverse Polarity Protection         | Yes                                                                                          |              |                    |              |              |              |             |
| Over Current / Voltage Protection   | Yes                                                                                          |              |                    |              |              |              |             |
| Anti-islanding Protection           | Yes                                                                                          |              |                    |              |              |              |             |
| AC Short-ciruit Protection          | Yes                                                                                          |              |                    |              |              |              |             |
| Leakage Current Detection           | Yes                                                                                          |              |                    |              |              |              |             |
| Ground Fault Monitoring             | Yes                                                                                          |              |                    |              |              |              |             |
| Grid Monitoring                     | Yes                                                                                          |              |                    |              |              |              |             |
| Enclosure Protect Level             | IP65                                                                                         |              |                    |              |              |              |             |
| General Data                        |                                                                                              |              |                    |              |              |              |             |
| Dimensions (W x H x D, mm)          | 370x497x192/558x535x260                                                                      |              | 558 x 535 x 260 mm |              |              |              |             |
| Weight (kg)                         | 20.8 / 29kg                                                                                  |              | 29kg               |              | 36kg         |              |             |
| Topology                            | Transformerless                                                                              |              |                    |              |              |              |             |
| Cooling Concept                     | Intelligent Fan                                                                              |              |                    |              |              |              |             |
| Relative Humidity                   | 0 - 100 %                                                                                    |              |                    |              |              |              |             |
| Operating Temperature Range (°C)    | - 25 to 60 °C                                                                                |              |                    |              |              |              |             |
| Operating Altitude (m)              | < 4000                                                                                       |              |                    |              |              |              |             |
| Noise Emission (dB)                 | < 30                                                                                         |              | < 40               |              |              |              |             |
| Standby Consumption (W)             | < 5                                                                                          |              |                    |              |              |              |             |
| Display & Communication Interfaces  | LCD, LED, RS485, CAN, Wi-Fi, GPRS, 4G                                                        |              |                    |              |              |              |             |
| Certification & Approvals           | NRS097, G98/G99, EN50549-1, C10/C11, AS4777.2, VDE-AR-N4105, VDE0126, IEC62109-1, IEC62109-2 |              |                    |              |              |              |             |
| EMC                                 | EN61000-6-2, EN61000-6-3                                                                     |              |                    |              |              |              |             |

**For New Storage System:**

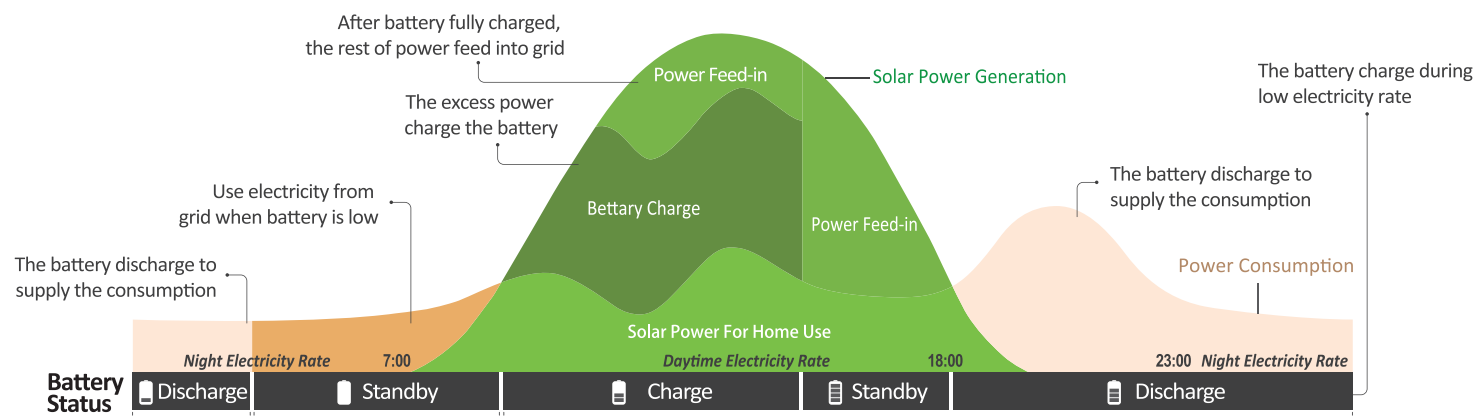


## Optimizing Self-Consumption (on-grid) + Emergency Power Supply (off-grid)



## Optimizing Self-Consumption Mode

With energy storage system installed, users may also be able to change from a flat rate electricity tariff to a time-of-use tariff. For the areas and regions, where peak shaving can be applied.



## ■ Technical Data

| Technical Data                      |                                                                                              | SW3KHP3-EU  | SW4KHP3-EU  | SW5KHP3-EU  | SW6KHP3-EU  | SW8KHP3-EU   | SW10KHP3-EU  | SW12KHP3-EU |
|-------------------------------------|----------------------------------------------------------------------------------------------|-------------|-------------|-------------|-------------|--------------|--------------|-------------|
| PV Input                            |                                                                                              |             |             |             |             |              |              |             |
| Max. DC Input Power (kW)            | 5                                                                                            | 6           | 7.5         | 9           | 12          | 15           | 18           |             |
| Max. PV Voltage (V)                 | 1000                                                                                         |             |             |             |             |              |              |             |
| Rated DC Input Voltage (V)          | 620                                                                                          |             |             |             |             |              |              |             |
| DC Input Voltage Range (V)          | 150-1000                                                                                     |             |             |             |             |              |              |             |
| MPPT Voltage Range (V)              | 150-850                                                                                      |             |             |             |             |              |              |             |
| Full MPPT Range(V)                  | 200-850                                                                                      |             |             | 250-850     | 300-850     | 500-850      |              |             |
| Start-up Voltage (V)                | 160                                                                                          |             |             |             |             |              |              |             |
| Max. DC Input Current (A)           | 20x2                                                                                         |             |             |             |             |              |              |             |
| Max. Short Current(A)               | 30x2                                                                                         |             |             |             |             |              |              |             |
| No. of MPPT Tracker / Strings       | 2/2                                                                                          |             |             |             |             |              |              |             |
| Battery Port                        |                                                                                              |             |             |             |             |              |              |             |
| Battery Nominal Voltage (V)         | 100                                                                                          | 100         | 100         | 150         | 200         | 250          | 300          |             |
| Battery Voltage Range (V)           | 80-600                                                                                       |             |             |             |             | 120-650      |              |             |
| Max. Charge/Discharge Current (A)   | 50                                                                                           |             |             |             |             |              |              |             |
| Max. Charge/Discharge Power (kW)    | 3                                                                                            | 4           | 5           | 6           | 8           | 10           | 12           |             |
| Charging Curve                      | 3 Stages                                                                                     |             |             |             |             |              |              |             |
| Compatible Battery Type             | Li-ion / Sodium-ion battery                                                                  |             |             |             |             |              |              |             |
| AC Grid                             |                                                                                              |             |             |             |             |              |              |             |
| Nominal AC Output Power (kW)        | 3                                                                                            | 4           | 5           | 6           | 8           | 10           | 12           |             |
| Max. AC Input/Output Power (kVA)    | 4.5 / 3.3                                                                                    | 6 / 4.4     | 7.5 / 5.5   | 9 / 6.6     | 12 / 8.8    | 15 / 11      | 18 / 13.2    |             |
| Max. AC Output Current (A)          | 5.3                                                                                          | 7           | 8.5         | 10.5        | 13.5        | 17           | 21.5         |             |
| Nominal AC Voltage (V)              | 230/400                                                                                      |             |             |             |             |              |              |             |
| Nominal AC Frenquency (Hz)          | 50/60                                                                                        |             |             |             |             |              |              |             |
| Power Factor                        | 1 ( -0.8-0.8 )                                                                               |             |             |             |             |              |              |             |
| Current THD (%)                     | <3%                                                                                          |             |             |             |             |              |              |             |
| AC Load Output (Back-up)            |                                                                                              |             |             |             |             |              |              |             |
| Nominal Output Power (VA)           | 3000                                                                                         | 4000        | 5000        | 6000        | 8000        | 10000        | 12000        |             |
| Nominal Output Voltage (V)          | 230/400                                                                                      |             |             |             |             |              |              |             |
| Nominal Output Frequency (Hz)       | 50/60                                                                                        |             |             |             |             |              |              |             |
| Nominal Output Current (A)          | 4.4                                                                                          | 5.8         | 7.3         | 8.7         | 11.6        | 14.5         | 17.4         |             |
| Peak Output Power                   | 3300VA, 60s                                                                                  | 4400VA, 60s | 5500VA, 60s | 6600VA, 60s | 8800VA, 60s | 11000VA, 60s | 13200VA, 60s |             |
| THDV (with linear load)             | <3%                                                                                          |             |             |             |             |              |              |             |
| Switching Time (ms)                 | <10                                                                                          |             |             |             |             |              |              |             |
| Efficiency                          |                                                                                              |             |             |             |             |              |              |             |
| Europe Efficiency                   |                                                                                              |             |             | 97.50%      |             |              |              |             |
| Max. Efficiency                     | 98.00%                                                                                       |             |             |             | 98.20%      |              | 98.30%       |             |
| Battery Charge/Discharge Efficiency | 98.00%                                                                                       |             |             |             |             |              |              |             |
| Protection                          |                                                                                              |             |             |             |             |              |              |             |
| Reverse Polarity Protection         |                                                                                              |             |             | Yes         |             |              |              |             |
| Over Current / Voltage Protection   |                                                                                              |             |             | Yes         |             |              |              |             |
| Anti-islanding Protection           |                                                                                              |             |             | Yes         |             |              |              |             |
| AC Short-circuit Protection         |                                                                                              |             |             | Yes         |             |              |              |             |
| Leakage Current Detection           |                                                                                              |             |             | Yes         |             |              |              |             |
| Ground Fault Monitoring             |                                                                                              |             |             | Yes         |             |              |              |             |
| Grid Monitoring                     |                                                                                              |             |             | Yes         |             |              |              |             |
| Enclosure Protect Level             |                                                                                              |             |             | IP65        |             |              |              |             |
| General Data                        |                                                                                              |             |             |             |             |              |              |             |
| Dimensions (W x H x D, mm)          | 558 x 535 x 260 mm                                                                           |             |             |             |             |              |              |             |
| Weight (kg)                         | 29kg                                                                                         |             |             |             |             |              |              |             |
| Topology                            | Transformerless                                                                              |             |             |             |             |              |              |             |
| Cooling Concept                     | Intelligent Fan                                                                              |             |             |             |             |              |              |             |
| Relative Humidity                   | 0-100%                                                                                       |             |             |             |             |              |              |             |
| Operating Temperature Range (°C)    | -25 to 60 °C                                                                                 |             |             |             |             |              |              |             |
| Operating Altitude (m)              | <4000                                                                                        |             |             |             |             |              |              |             |
| Noise Emission (dB)                 | <30                                                                                          |             |             |             |             |              |              |             |
| Standby Consumption (W)             | <5                                                                                           |             |             |             |             |              |              |             |
| Display & Communication Interfaces  | LCD, LED, RS485, CAN, Wi-Fi, GPRS, 4G                                                        |             |             |             |             |              |              |             |
| Certification & Approvals           | NRS097, G98/G99, EN50549-1, C10/C11, AS4777.2, VDE-AR-N4105, VDE0126, IEC62109-1, IEC62109-2 |             |             |             |             |              |              |             |
| EMC                                 | EN61000-6-2, EN61000-6-3                                                                     |             |             |             |             |              |              |             |