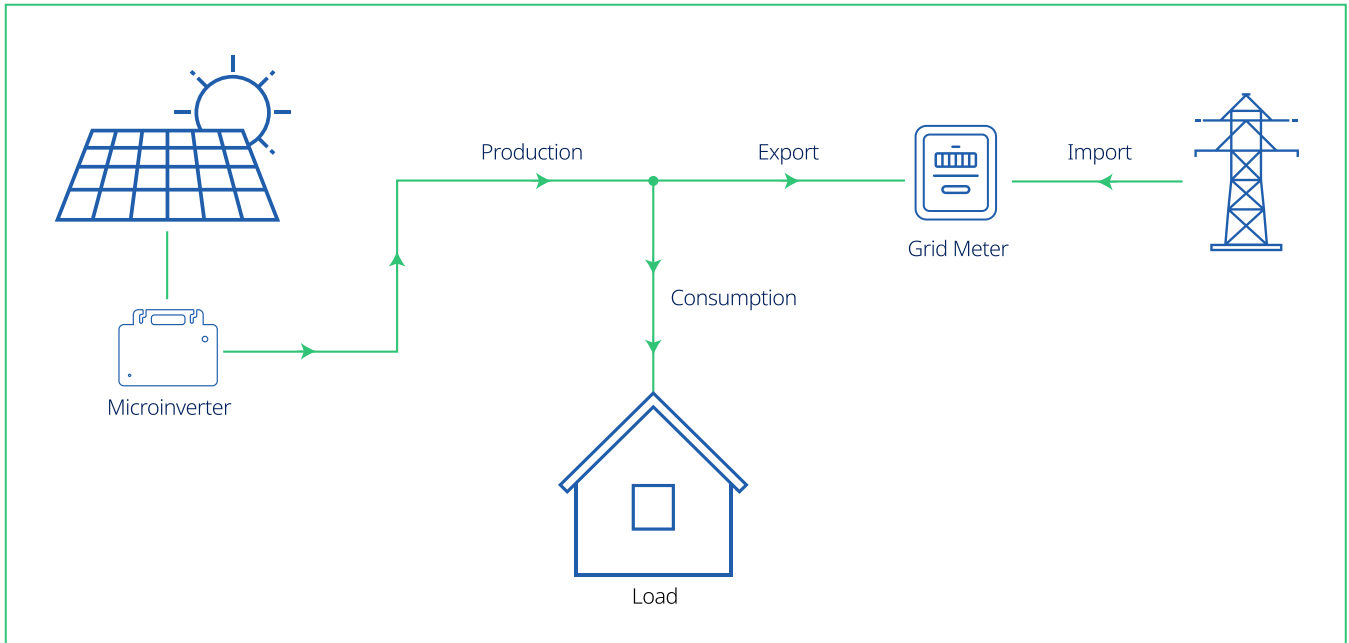
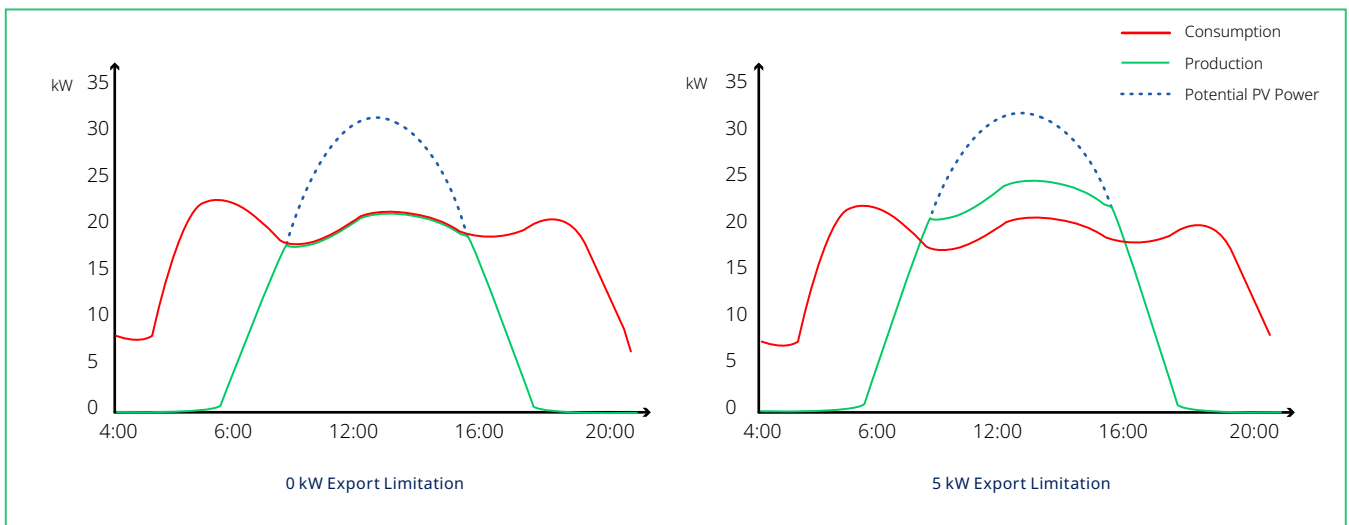


# Smart Power Export Management System



Hoymiles Smart Power Export Management is an intelligent and reliable solution for managing the amount of power exported to the grid. It consists of the meter with external CTs, Hoymiles Gateway DTU-Pro (or DTU-Pro-S) and Hoymiles microinverter. The meter measures export power to the grid or the energy consumption of loads, and the gateway DTU dynamically adjusts PV power production according to meter measurements.

This solution allows the meter to be installed either on the load side or the grid side. But to display the PV production accurately, the meter should be installed at the output of the PV system. Using this solution, users can have a larger installation without violating grid export regulations and to trade PV production online based on the data contained in the S-Miles Cloud, maximizing the profit made on solar power generation.



Load consumption and PV production curves throughout the day

## System Composition



### DTU-Pro/DTU-Pro-S

DTU is the control center for the export management solution and is responsible for receiving data from the meter and adjusting the microinverter's output power.



### Split-phase electric meter (With 100 A Current Transformer)

The split-phase electricity meter can be used with the 100 A external current transformer (CT) to measure the PV power production, load consumption or export power.

**Suitable for split-phase power grid**



### Split-phase electricity meter (With 250 A Current Transformer)

For higher current load, the split-phase electricity meter can be used with the 250 A external current transformer (CT) to measure the PV power production, load consumption or export power.

**Suitable for split-phase power grid**

# Technical Specifications

| Model (Meter)                  | DTSU666 (CT-2 × 100A) | DTSU666 (CT-2 × 250A) |
|--------------------------------|-----------------------|-----------------------|
| <b>Power Supply</b>            |                       |                       |
| Grid type                      | 1P3W                  |                       |
| Input voltage (phase voltage)  | 96 Vac - 138 Vac      |                       |
| Power consumption              | ≤ 1.5 W               |                       |
| <b>Measuring Range</b>         |                       |                       |
| Phase voltage                  | 96 Vac - 138 Vac      |                       |
| Current                        | 0 - 100 A             | 0 - 250 A             |
| <b>Measuring Accuracy</b>      |                       |                       |
| $0.01 I_n \leq I < 0.05 I_n^*$ | ±1.5 %                |                       |
| $0.05 I_n \leq I \leq I_n^*$   | ±1.0 %                |                       |
| <b>Communication</b>           |                       |                       |
| Interface                      | RS485                 |                       |
| Communication protocol         | Modbus-RTU            |                       |
| <b>Mechanical Data</b>         |                       |                       |
| Wiring type                    | Via-CT                |                       |
| Ambient temperature range      | -25 °C - 70 °C        |                       |
| Dimensions (W × H × D)         | 72 x 98 x 65 mm       |                       |
| Mounting Type                  | DIN35 Rail            |                       |
| <b>CT Data</b>                 |                       |                       |
| Thread                         | Single turn           |                       |
| Install                        | Buckle                |                       |
| Ambient temperature range      | -25 °C - 70 °C        |                       |
| Dimensions (W × H × D)         | 44 x 78 x 33 mm       |                       |
| Cable length                   | 6 m                   |                       |

\*In: Secondary rated current of the current transformer.

Unit: mm

