

Supplement

sonnenBatterie hybrid 8.1 - Transition to Dual MPPT Input

General description

- To enable expansion of the kWp into the sonnenBatterie hybrid 8.1 sonnen Australia will now offer a dedicated dual MPPT string combiner option.
- By using a string optimizer it is possible to connect two pv strings to the input of the sonnenBatterie hybrid 8.1.
- Thereby nearly every pv module on the market can be used to meet the correct input power and observe the dc voltage limits of 600 V claimed in AS/NZS 5033.
- The dual MPPT string combiner can offer asymmetrical inputs with up to 30 % difference in power level and 100 Vdc between MPPT inputs.

Installation and Usage

- The sonnenBatterie hybrid 8.1 is tested in combination with the Ampt string optimizer V600-12.
- ▶ With regards to the intallation please observe the AMPT installation instructions (‘Ampt String Optimizer V600 Series Installation Manual: 57070004-1H’).

Please note:

- Use a suitable pv cable ($\geq 4 \text{ mm}^2$) for the connection of the string optimizer.
- Use the supplied pv plug-in connectors for the connection of the sonnenBatter hybrid 8.1.
- Use only Amphenol H4 or H4 UTX connectors for the connection of the string optimizer.
- **The hybrid 8.1 will require additional configuration by the sonnen Australia service team to reconfigure the MPPT input to being in fixed voltage mode. It is therefore prerequisite of the commissioning process to contact the service team to assist with the configuration of the system.**

Technical data

Ampt V600-12

Input	
Max. voltage per input	585 V
Max. current per input	11 A
MPP tracking voltage range	200 - 460 V
Max. power difference between each string	30 %
Max. voltage difference between each string	100 V
Number of inputs	2
Typical power per optimizer	5.7 - 7.7 kWp
Output	
Output voltage range	0 - 600 V
Max. output current	12 A
Max. continuous output power	6.80 kWdc
Efficiency (max, CEC, Euro)	99.4 %, 99.1 %, 99.0 %
Mechanical	
Input & output connector type	Amphenol H4
Dimensions	10.19" x 8.66" x 3.15" (259 mm x 220 mm x 80 mm)
Weight	8.4 lbs (3.8 kg)
Ambient temperature operating range	-40 °F to +167 °F (-40 °C to +75 °C)
Cooling	Convection
General	
Max. system voltage	1000 V
Compliance	ETL to UL 1741; IEC 61000-6-1, 61000-6-3, 62109; CE
Ingress protection	IP 66

If you have any further questions or require support or assistance, please contact us at support@sonnen.com.au.