

Unbalanced output capability of three-phase inverters

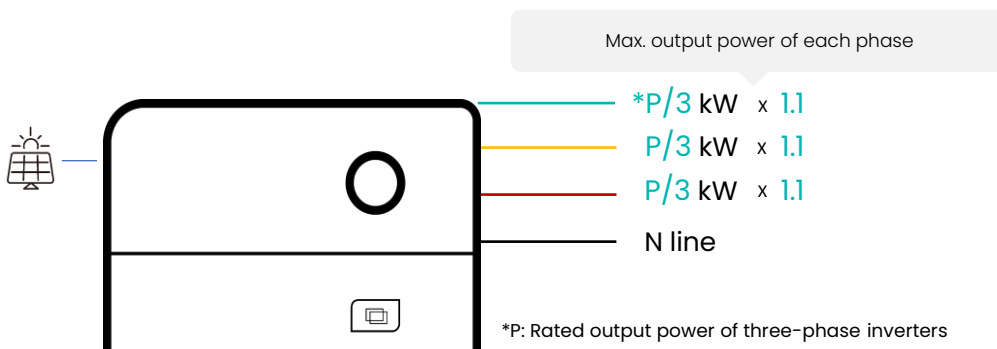
Manufacturer: Sigenenergy Technology Co., Ltd.

Sigenenergy solution of three-phase unbalanced loads

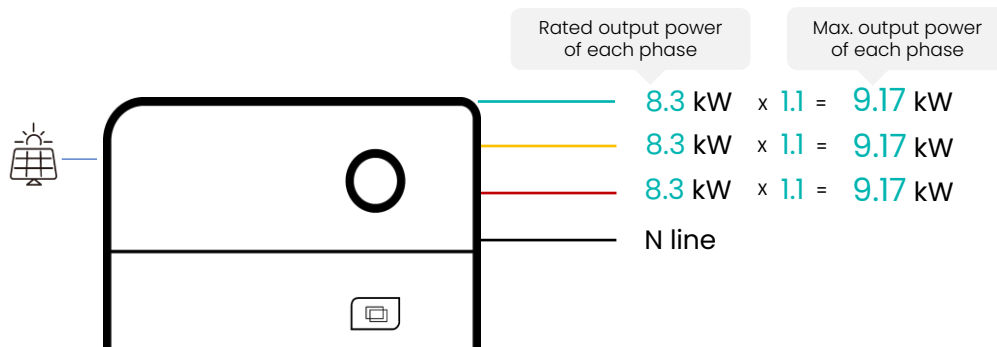
Sigenenergy inverter achieves 100% three-phase unbalanced output capability through the implementation of a balanced bridge circuit design within the inverter architecture. For instance, each phase of a Sigen Energy Controller 25.0 kW Three Phase is capable of independently delivering 100% power, resulting in 8.33 kW ($25/3 \times 100\%$) per phase. Furthermore, considering the inverter's additional 1.1 times overload capability, it can effectively achieve up to 9.17 kW output per phase.

Examples:

Unbalanced output power capability of three-phase inverters



25.0 kW three-phase inverter unbalanced output power capability



SigenStor EC / Sigen Hybrid / Sigen PV Max unbalanced output power capability

All models' capability is listed below.

Inverter rated output power /kW	Rated output power of each phase /kW	Maximum output power of each phase /kW
5.0	1.67	1.84
6.0	2.0	2.2
8.0	2.67	2.94
10.0	3.33	3.67
12.0	4.0	4.4
15.0	5.0	5.5
17.0	5.67	6.24
20.0	6.67	7.34
25.0	8.33	9.17