

Sermatec is a technology company based on power electronic control technology and energy interconnection technology, aiming to ensure the safety and efficiency of energy storage systems.

- Core Team - Years of Experience: **15+**
- Proprietary Intellectual Property Rights: **100+**
- Countries and Regions of Customers: **30+**
- Proportion of R&D Personnel: **70%**

Commercial & Industrial Modular PCS

SMT-30DC/AD/MT SMT-60DC/AD/MT

This module features full digital control and has excellent load and power grid adaptability, suitable for many complex application scenarios. The system operation is highly safe, reliable, economical, and environmentally adaptable.



Product Features

- Modular design, and flexible multi-unit parallel connection based on an advanced control algorithm
- Smart control of mode switching - switching time under full power ≤ 30 ms
- Supporting 3P4W+PE, convenient for use and maintenance
- Inverter on-grid and off-grid modes, suitable for large-scale C&I projects



Data center



Commercial buildings



Industrial parks



PV, storage & charging integration



Distribution grid expansion

Technical Data

Product Type	SMT-30DC/AD/MT	SMT-60DC/AD/MT
DC Input		
Max. voltage	1000 V	1000 V
Rated voltage	800 V	800 V
Voltage range	680 ~ 1000 V	680 ~ 1000 V
Max. charging / discharging current	44 A	88 A
AC side (on-grid) parameters		
Max. input apparent power	30 kVA	60 kVA
Max. input active power	30 kW	60 kW
Rated input voltage	230 / 400V, 3P4W+PE	230 / 400V, 3P+N+PE
Max. continuous input current	43 A	86 A
Power factor	0.8 leading... 0.8 lagging	0.8 leading... 0.8 lagging
AC side (off-grid) parameters		
Rated output voltage	230/400V, 3P+N+PE	230/400V, 3P+N+PE
Rated output frequency	50 Hz	50 Hz
Max. continuous output current	43 A	86 A
Max. output active power	30 kW	60 kW
Max. output apparent power	30 kVA	60 kVA
Load unbalance capacity	100 %	100 %
Overload capacity	1.1 times 1min @ 35 °C ; 1.2 times 5s	1.1 times 1min @ 35 °C ; 1.2 times 5s
General Data		
Operating temperature range	-30 ~ 60°C (> 45 °C derating)	-30 ~ 60°C (> 45 °C derating)
Degree of protection	IP20	IP20
Max. operating altitude	3000 m	3000 m
Max. efficiency	98.5 %	98.5 %
AC / DC start function	Integrated	Integrated
Dimension (W*D*H)	436*550*130 mm	436*550*130 mm
Weight	25 kg	28 kg
Communication		
Battery BMS communication interface	CAN, RS485	CAN, RS485
Superior monitoring communication interface	Ethernet, RS485	Ethernet, RS485
Supervisory monitoring communication protocol	Modbus TCP/Modbus RTU	Modbus TCP/Modbus RTU
General IO port	3 - DI, 2 - DO	3 - DI, 2 - DO

Disclaimer: The content of the Manual is for reference only. In case of any change, please refer to the actual product.



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Shanghai Sermatec Energy Technology Co., Ltd. reserves the right to the final interpretation of the Manual. (First edition in March 2023)