

10kw hybrid three phases inverter



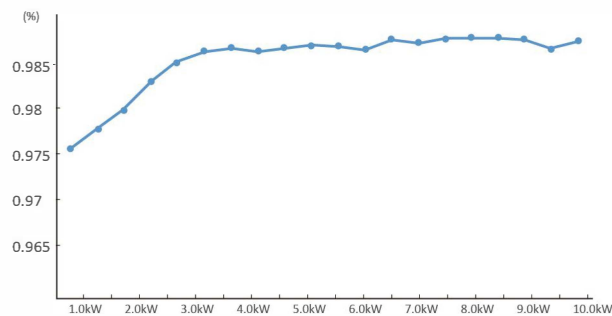
Characteristics :

- On/off grid switch time < 10ms
Inductive load $\leq 3.3\text{kw}$
Connect 100% unbalanced load at off grid model
Wide battery voltage range 200V-800V
- Adopt IP65 protection level, suitable for harsh environments such as high altitude, high temperature, high cold, and long-term continuous and reliable operation. The designed life is up to 25 years.
- Support grid-connected and off-grid seamless switching;
With the function of energy management, support unmanned autonomous operation without EMS.
- With flexible configuration, it can select photovoltaic/mains charging modes and the buried Lithium battery, support Wi-Fi and GPRS wireless monitoring mode, and support multiple-unit parallel operation, convenient for expansion.

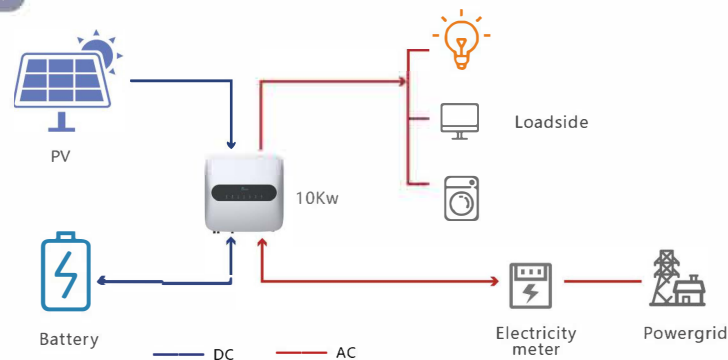


Efficiency curve ▶

PV - GRID Efficiency Curve



Topological graph ▶



Model	SMT-10K-TH-HV
PV parameters	
Maximum output power	13000W
Maximum DC voltage	1000V
Maximum input current	11/11A
DC overcurrent protection	14A
MPPT voltage range	330~800V
MPPT input circuit number	2
Battery parameters	
Battery type	Lithium battery
Battery voltage range	200V~800V
Rated battery voltage	500V
Maximum charge and discharge efficiency	98%/98%
Maximum charge and discharge current	25A/25A
AC side parameters	
Rated power grid power	10000W
Power grid voltage range	400V~230V;380V~220V
Rated power grid frequency	50/60Hz
Maximum AC input/output current	16A/16A
Power factor	-0.8overexcited, 0.8underexcited
THDi	< 3%
Load side parameter	
Rated power	10000W
Maximum output current	16A
Overcurrent protection	14.5A
Power factor	-0.8overexcited, 0.8underexcited
THDi	< 3%
Efficiency	
MPPT power	99.9%
European efficiency	97%
Max. efficiency	98.6%
Conventional parameters	
Size (width / height / thickness)	548*550*188mm
Weight	< 40kg
Operating temperature	-25℃~60℃
Noise index	< 30dB
Relative humidity	0~95%
Operating altitude	< 2000
Cooling mode	Natural cooling
Protection level	IP65
Protective function	
Anti-islanding protection	Yes
DC switch (PV)	Yes
Output overcurrent protection	Yes
Output overvoltage protection	Yes
Output short circuit protection	Yes
Characteristics	
Display	LED
Communication interface	WIFI、RS485、GPRS
Quality guarantee	5