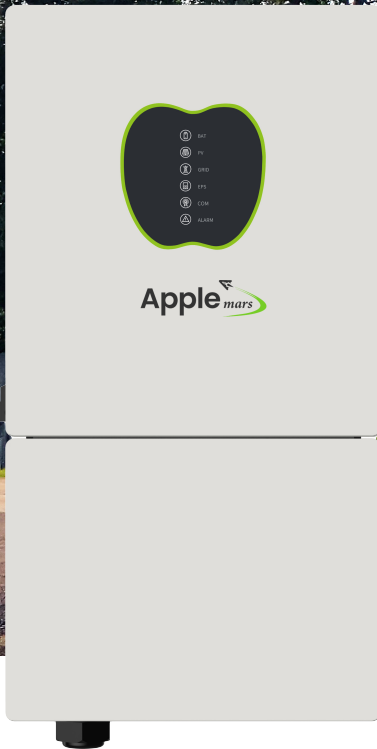


Apple Mars Hybrid Inverter

SINGLE PHASE



Energy Storage Inverter

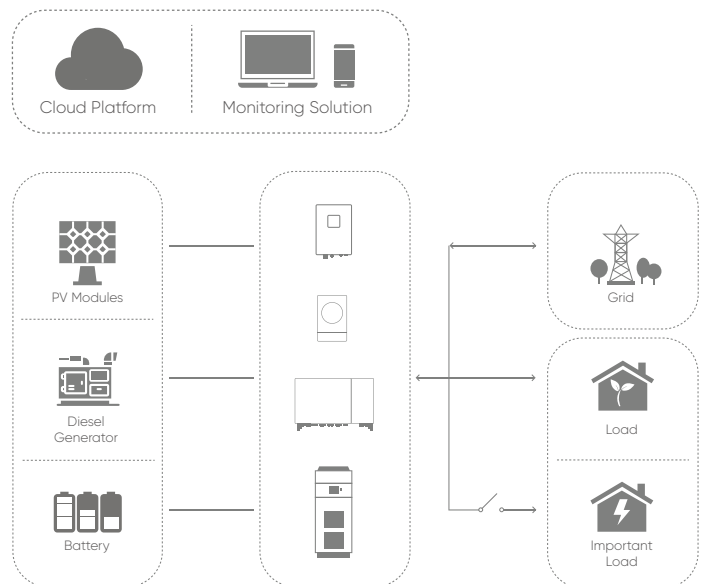
SE10KHB-210/EU | Apple Mars 10KW hybrid inverter 48V



The Apple Mars 10KW hybrid inverter with a 48V input is a versatile power conversion device designed to manage energy flow between different sources in a renewable energy system. It typically combines the functions of a solar inverter, a battery charger, and an uninterruptible power supply (UPS) into a single unit.

FEATURES

- Max efficiency 98.0%, CEC efficiency 95%
- Max. PV Power 15KW
- String current 30A, compatible with high power modules
- Advanced parallel, up to 9Pcs
- Configure BMS management system to ensure high battery life
- Compatible with lead-acid batteries and lithium battery energy storage systems
- Remote configuration and upgrade



Model	SE 10KHB-210-T/EU
Efficiency	
Max. Efficiency (PV To AC)	98.0%
Max. Efficiency (Bat To AC)	95.0%
Input(PV)	
Max. PV Power	15000W
Max. Input Voltage	600V
Max. Input Current (PV-A/PV-B)	30A/22A/22A
Max short current (input A/input B) (A)	40A/30A/30A
Start operating voltage (V)	90V
MPPT Operating Voltage Range	70V-540V
No.of MPPT trackers	3
String per MPP tracker	2
Input(Bat)	
Compatible battery type	Lithium-ion/Lead-acid
Nominal battery voltage	48V
Battery voltage range	40V-64V
Max. charge/discharge current	210A/210A
Max. charge/discharge power	10000W/10000W
Lithium battery charge curve	Self-adaption to BMS
Input (Grid)	
Nominal AC input power	15000W
Max. AC input current	65.3A
Rated AC voltage	230V (Single phase)
Output (Grid)	
Nominal AC output power	10000W
Max. AC output apparent power	11000VA
Max.AC output power (PF=1)	11000W
Max. AC output current	50A
Rated AC voltage	230V, L+N+PE
Rated grid frequency	50Hz / 60Hz
Grid connection	Single phase
Power factor	> 0.99 @rated power (adjustable 0.8 LD - 0.8 LG)
THDI	<3% (Rated Power)
Output (BackUp)	
Nominal output power	10000W
Nominal output voltage	230V, L+N+PE
Nominal output frequency	50/60Hz
Nominal output current	43.5A
Maximum power(1s)	20000VA
Nominal output voltage	230V, L+N+PE
Nominal output frequency	50Hz / 60Hz
Transfer time	10ms (typ) / 20ms (max)
THDV	<3% @100% R Load
Protection	
Protection category	Class I
DC switch	Support
Anti-islanding protection	Support
AC overcurrent protection	Support
AC short circuit protection	Support
DC reverse connection	Support
Surge Arrester	DC Type II, AC Type II
Insulation detection	Support
Leakage current protection	Support
Gen	Support
PV overvoltage category	II
AFCI	Optional
RSD	Optional
General	
Max. operation altitude	4000m
Noise emission	<45dB
Ingress protection degree	IP65
Operating temperature range	-25~60°C(>45°C derating)
Relative humidity	0~100%
Cooling concept	Fan Cooling
Mounting	Wall bracket
Dimensions (W*H*D)	420mm*800mm*240mm
Weight (kg)	37Kg
PV connection	Terminals
BAT connection	DC special connector
HMI & COM	
Display	LED+APP
Communication interface	RS485/CAN (for BMS), DRM/RS485 (for Meter), RS485, USB, Optional: WiFi/GPRS/LAN
Certification	
Grid	NRS 0-97 / IEC61727 / IEC62116
Safety	IEC62109
EMC	EN 61000
Warranty	5 Years /10 Years (Optional)



Remarks • The range of output voltage and frequency may vary depending up on different grid codes.
• Specifications are subject to change without advance notice.