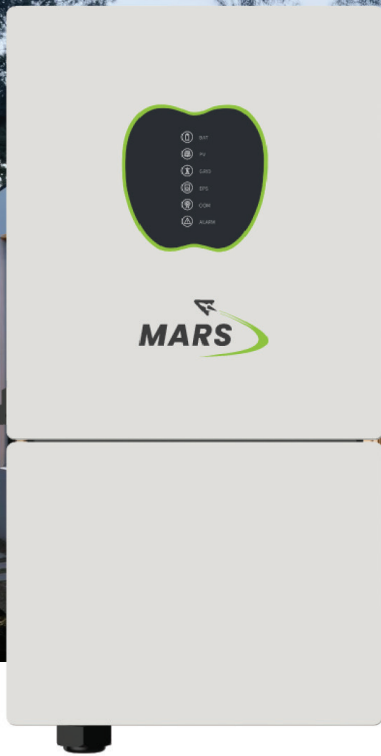




# Mars Hybrid Inverter

SINGLE PHASE



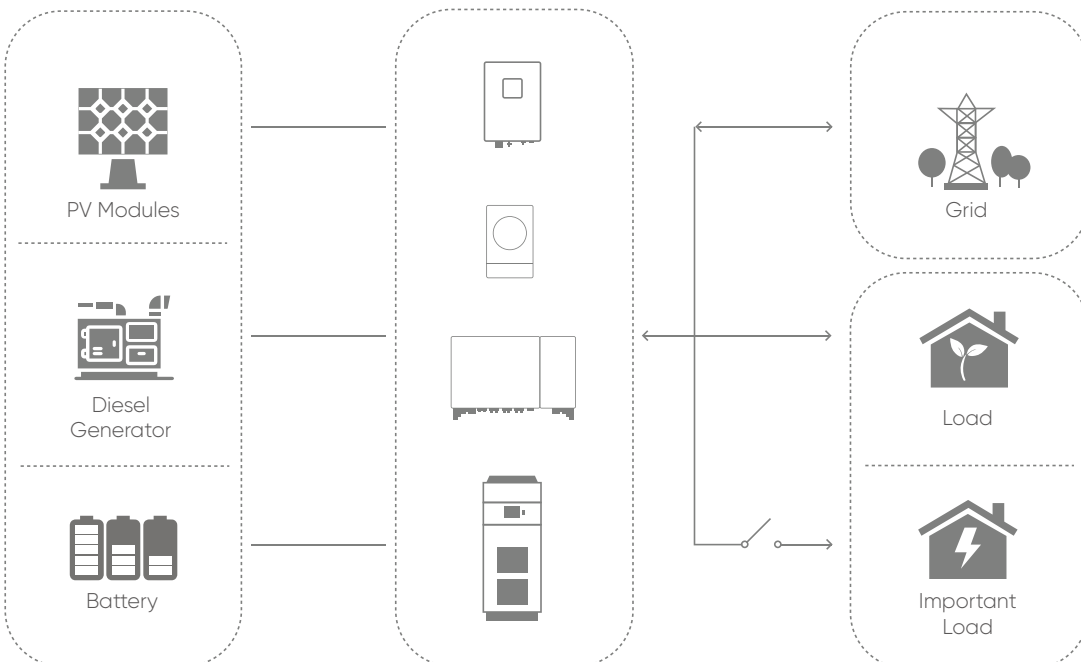
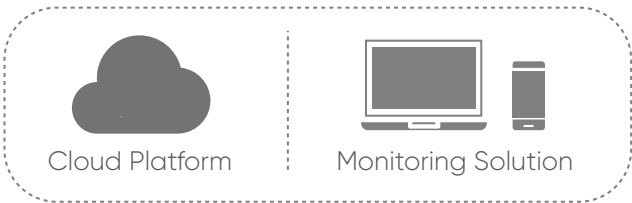
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The Future of residential Hybrid Inverters

## 10KW HYBRID INVERTER 48V

### 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



HIGH YIELD



HIGH RELIABILITY



INTELLIGENT MAINTENANCE

Model	SE 10KHB-210-T/EU	
<b>Efficiency</b>		
Max. Efficiency (PV To AC)	98.0%	
Max. Efficiency (Bat To AC)	95.0%	
<b>Input(PV)</b>		
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	
<b>Input(Bat)</b>		
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	
<b>Input (Grid)</b>		
Nominal AC input power	15000W	
Max. AC input current	65.3A	
Rated AC voltage	230V (Single phase)	
<b>Output (Grid)</b>		
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)	
<b>Output (BackUp)</b>		
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	
<b>Protection</b>		
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	
<b>General</b>		
Max. operation altitude	4000m	
Noise emission	<45dB	
Ingress protection degree	IP65	
Operating temperature range	-25~60 (>45 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	
<b>HMI &amp; COM</b>		
Display	LED+APP	
Communication interface	RS485/CAN (for BMS), DRM/RS485 (for Meter), RS485, USB, Optiona I: WiFi/GPRS/LAN	
<b>Certification</b>		
Grid	NRS 0-97 / IEC61727 / IEC62116	
Safety	IEC62109	
EMC	EN 61000	
<b>Warranty</b>	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.