

Mars Three-Phase Inverter



*Three Phase, 2 MPPTs,
High Voltage Hybrid Inverter*

PRODUCT MODEL

- Mars 5000 HVT
- Mars 6000 HVT
- Mars 8000 HVT
- Mars 10000 HVT



Max.
1.5

1.5 Times PV Oversize

1000V
18A

Compatible with high power
PV modules with 1000V/18A

<10
ms

UPS level switching

100%

Support 100% unbalanced loads

10
units

Support up to 10 units
parallel connections

Max.
98%

Max. efficiency 98%,
Battery efficiency 97.6%



Remote firmware upgrade



Support VPP / FFR function



Remote work mode setting



Compact size and easy installation

MODEL	Mars 5000 HVT	Mars 6000 HVT	Mars 8000 HVT	Mars 10000 HVT
PV INPUT				
Max. Recommended PV Power [Wp]	7500	9000	12000	15000
Max. PV Input Voltage [V]	1000			
MPPT Voltage Range [V]	180 - 950			
Rated PV Input Voltage [V]	600			
Start-up Voltage [V]	160			
No. of MPP Trackers	2			
No. of Input Strings per Tracker	1			
Max. PV Input Current [A]	18 / 18			
Max. Short-circuit Current per MPPT [A]	23			
DC Switch	Integrated			
AC INPUT / OUTPUT				
Rated AC Power [W]	5000	6000	8000	10000
Max. AC Power Output to Grid [VA]	5500	6600	8800	11000
Max.AC Power from Grid [VA]	10000	12000	16000	20000
Rated AC Current [A]	7.6	9.1	12.2	15.2
Rated AC Voltage / Range [V]	3 / N / PE, 220 / 380, 230 / 400			
Grid Frequency / Range [Hz]	50 / 60			
Ajustable Power Factor [cosφ]	0.8 leading - 0.8 lagging			
Output THDi (@Rated Output)	< 3%			
BATTERY				
Battery Type	Lithium			
Battery Voltage Range [V]	160 - 700			
Max. Charging / Discharging Current [A]	30			
Communication Interface	CAN			
EPS OUTPUT (With Battery)				
EPS Rated Power [W]	5000	6000	8000	10000
EPS Rated Voltage [V]	3 / N / PE, 220 / 380, 230 / 400			
EPS Rated Frequency [Hz]	50 / 60			
EPS Rated Current [A]	7.6	9.1	12.2	15.2
Output THDi (@Rated Output)	< 3%			
Automatic Switch Time [ms]	< 10			
Peak Apparent Power, Duration [VA,s]	7500,60	9000,60	12000,60	15000,60
EFFICIENCY				
Max. Efficiency	98.00%	98.00%	98.00%	98.00%
Euro Efficiency	97.70%	97.70%	97.70%	97.70%
Max. Battery Charge / Discharge Efficiency	97.60%	97.60%	97.60%	97.60%
PROTECTION				
DC Insulation Monitoring	Integrated			
Input Reverse Polarity Protection	Integrated			
Anti-island Protection	Integrated			
Residual Current Monitoring	Integrated			
Over-heat Protection	Integrated			
AC Overcurrent Protection	Integrated			
AC Short-circuit Protection	Integrated			
AC Overvoltage Protection	Integrated			
DC Surge Protection	TypeII			
AC Surge Protection	TypeII			
GENERAL DATA				
Dimensions (W *H*D)	520 * 412 * 186mm			
Weight [kg]	27			
User Interface	LED + OLED			
Communication	RS485 and USB / Wifi / 4G (Optional)			
Operating Temperature Range [°C]	-25 - +60			
Relative Humidity	0 - 100%			
Operating Altitude [m]	≤ 4000			
Standby Self Consumption [W]	< 15			
Topology	Transformerless			
Cooling	Natural			
Enclosure	IP65			
Noise [dB]	< 35			
Warranty [years]	5+5			
CERTIFICATION				
Grid Regulation	VDE-AR-N 4105, EN 50549-1, VDE 026, CEI 0-21, EN 50549-PL, ÖVE/ÖNORM E 8001-4-712, EN50549-CZ			
Safety Regulation	IEC 62109-1, IEC 62109-2			
EMC	IEC 61000-6-1, IEC 61000-6-3			