

YUNT

Mars-1 25KT-F

100~125KW Air-cooled PCS



+ Features

Efficient and intelligent

- Efficient harmonic suppression algorithm
- Intelligent multi-level speed-adjustable fan control
- Three-level topology, up to 99 % conversion efficiency

Flexible

- Support 8 sets of modules co-DC
- Support 32 sets of modules co-AC
- Design comply with 5U standard
- Support UPS, DVR, SVG
- Support imbalance load in off-grid mode

Grid-friendly

- Support high and low voltage ride through
- Support stable operation of weak grid
- Grid-forming on-grid technology



(whatsAPP)

Mars series converter modules of commercial and industrial energy storage

Specifications	Mars-50KT	Mars-60KT	Mars-100KT-F	Mars-110KT-F	Mars-125KT-F
					
Dc side					
Max.DC voltage	1000V				
Max. DC voltage	580V				
DCvoltage workingrange	580~1000V				
Maximum current on DC side	87.5A	105A	173A	190A	216A
AC side(on-grid)					
Rated charge and discharge power	50kW	60kW	100kW	110kW	125kW
Maximum charge and discharge power	60kW	72kW	120kW	132kW	150kW
Rated charge and discharge current	72.5A	87A	145A	160A	182A
Rated grid voltage	400V				
Allowed grid voltage range	300~460V				
Rated grid frequency	50Hz/60Hz				
Totalharmonic distortionofcurrent	<3%(At rated power)				
Power factor	>0.99				
Powerfactorrange	-1~1				
Overload capability	1.2Pn,Lasts for 1 minute				
AC side(off-grid)					
AC side(off-grid)	400V				
Voltage deviation	±2%				
Total harmonic distortion ofvoltage	<3%(Linear load)				
Efficiency					
Maximum efficiency	98.90%				
Protection					
DC RCP	Yes				
AC SCP	Yes				
AC output OCP	Yes				
Surge Protection	Type II				
Insulation resistance detection	Yes				
Temperature protection	Yes				
DC switch	Yes				
General					
Dimensions (W*H*D) (mm)	445mm*130*570		444*225*120		
Weight	<32kg		<60kg		
Topology	Transformerless				
Workingtemperature	-40~+60℃ Full power operation at or below 45℃				
IP level	IP20 (The module has a potted version)				
Mechanicalconditions	Intelligent air cooling				
Cooling method	<4000m(Deratingabove 3000m)				
Working altitude	<10W		<12W		
Characteristics					
DC connector	DT terminal				
AC connector	DT terminal				
Display	LED				
Communication mode	Ethernet、RS485、CAN				