Metis

Main Features

- Integrated HV box, PCS and AC power distribution functions. Reduce device, save system cost.
- Multi-level topology, low loss modulation. Improve capacity utilization.
- Functional safety design. Multiple protection protects system security.
- High protection grade. Support EtherCAT high speed communication.
- Support on-grid operation without transformer

Specifications

Model	M125	M135
Battery Port		
Operating Voltage Range	750 – 1000 V	
Rated Input/ Output Power	125 kW	135 kW
Max. Operating Current	170 A	
AC Port (On-grid Mode)		
Max. Output Power	125 kVA	135 kVA
Rated Current	150 A	162 A
Rated Grid Voltage	277/480 Vac, 3W+N+PE or 3W+PE	
Frequency	60 Hz	
Power Factor Range	1.0 (lagging) ~ 1.0 (leading)	
THDi	<3% (rated power)	
AC Port (Off-grid Mode)		
Output Voltage [1]	277/480 Vac, 3W+N+PE or 3W+PE	
Max. Output Power	125 kVA	135 kVA
Max. Alternating Current	150 A (linear load) / 100 A (nonlinear load)	162 A (linear load) / 100 A (nonlinear load)
Frequency	60 Hz	
Max. Allowable Crest Factor	2.5	
THDv	<3% (rated conditions, resistively balanced load)	
Protection		
Protect Function	Anti-reverse connection protection DC overvoltage and undervoltage protection Anti-AC phase sequence error protection AC overcurrent protection Overtemperature protection Anti-islanding protection AC surge protection	

Note: Pictures are for reference only, please prevail in kind.

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Model	M125	M135
General Data		
Topology	Transformer-less	
AC switch	Integrated	-
DC switch	Integrated	-
Peak efficiency	99.1%	99.1%
Rated operating efficiency	98.5%	98.3%
Operating temperature range	-13°F ~ +140°F , derating >113°F	
Humidity	0% ~ 95%	
Operating altitude	9800'	
Audible noise	<75 dBA @ 3'4"	
Parallel connection	Up to 5 in parallel connections	
Mechanical		
Dimension (W x H x D)	27 5/8" x 10 1/2" x 32 3/8"	
Weight	183 lb	180 lb
Cooling	Intelligent forced air cooling	
Enclosure material	Aluminum alloy	
Installation type	Rack-mounted	
Protection grade	NEMA 4	
Interface		
Display	LED	
Communication mode	RS485 / CAN	
Communication protocol	Modbus / CAN / EtherCAT (optional)	
Firmware Update Mode	Remote update supported	
Standards		
Safety	UL 1741, CSA 22.2 No.107.1-01	
Grid connection standards	IEEE 1547, UL 1741 SB	
EMC	FCC PART 15 Class A	

(1) Additional transformers are required to support single-phase loads.
Note: Pictures are for reference only, please prevail in kind.