



MobileDuty Package **AID**

BOM: MDM50043BAAL0UA

VFD Package Specifications

Enclosure	NEMA 3R
Cooling Method	Air Cooled Filter Fans
Filtration	Replaceable
Input Voltage	460V +10%/-15% 3 Phase
Input Frequency	60 HZ
Min. Ambient Temp	-20F (-28C)
Max. Ambient Temp	122F (50C)
Circuit Breaker Disconnect	LO/TO Compliant (Rotary)
Circuit Breaker Rating	1000A 35 KAIC Minimum
Line Side Reactor	5%
Surge Protection	UL 1449 40kA Surge Current
Control Power Transformer	1000VA
Display	5.7 OptiPump MD Controller VFD Keypad
Control	HOA, Speed Pot, 4-20mA
Camlock Power Connectors	Color coded 400A (Each input/output)
Heating Method	800 watt heater

VFD Chassis Specifications

Brand	Fuji
Model	FRN0500G1s-4U
Horsepower	500HP
Amperage/Altitude	650A/1000m w/o Derate
Humidity	Non-Condensing, 95% Max.
Overload Capacity	120% for 1 Min
Output Frequency	0.01 to 400 Hz
Analog Inputs	(2) 0-10vdc, (1) 4-20mA
Analog Outputs	(2) 4-20mA or 0-10V
Digital Inputs	(7)
Digital Outputs	(2) Relays, (4) Transistor
Communications	RS-485: Modbus RTU
Standards	UL, cUL, CE Listed

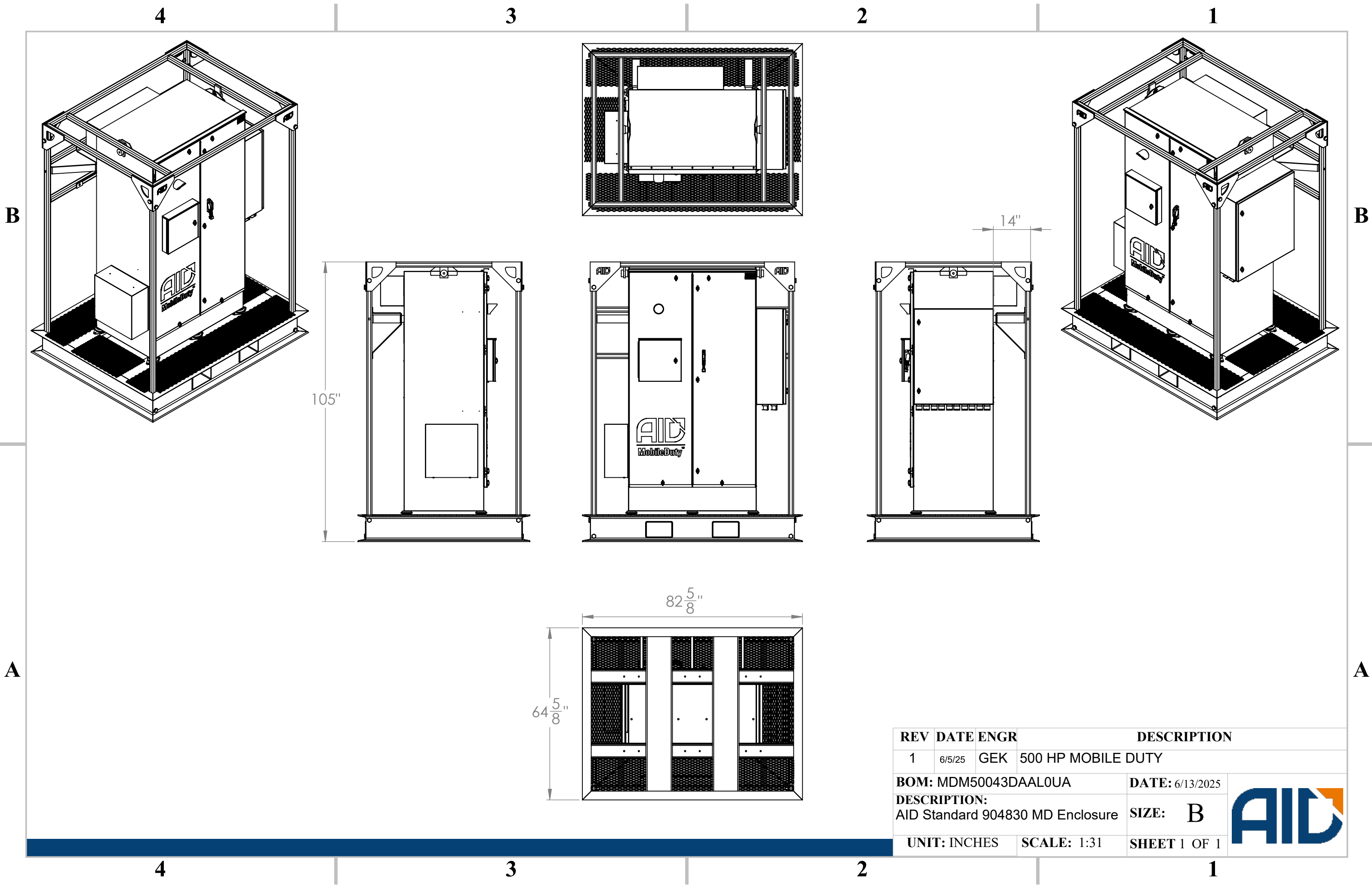
Enclosure Materials

Enclosure Material	Carbon Steel
Enclosure Paint Spec	Powder Coated
Optional Cage Material	Structural Steel
Optional Cage Paint Spec	Powder Coated
Enclosure Dimensions	90 X 48 X 30
Optional Cage Dimensions	105 X 83 X 65
Weight (lbs)	TBD

Available Package Options

Ethernet Expansion Cards
Premium Surge Protection Device
Indicator Lights
Low Voltage Wiring Hip Box
Auxiliary VFD's or Starters
DriveLynx (SCADA) & Remote Monitoring (ARCC)
Digital/Analog Bulkhead Connection (Customer Specified)
UL 508A Listed
Optional Cage





REV	DATE	ENGR	DESCRIPTION
1	6/5/25	GEK	500 HP MOBILE DUTY
BOM: MDM50043DAAL0UA			DATE: 6/13/2025
DESCRIPTION: AID Standard 904830 MD Enclosure			SIZE: B
UNIT: INCHES		SCALE: 1:31	SHEET 1 OF 1

