



US Hybrid



Heavy Duty Permanent Magnet Motor/Generator “HPM1000”

PRODUCT OVERVIEW:

The HPM1000 is a permanent magnet motor designed for medium and heavy duty electric and hybrid vehicles. It has excellent torque and power density with excellent energy efficiency. When used in conjunction with our Integrated Power Unit it can be operated over a wide dynamic range. As a system it can operate in either torque or speed control mode with full control of DC current, power and operating voltage. The system offers extensive J1939 compliance diagnostics and RS232. It can be used as a hybrid or operated as standalone and commanded and controlled via CAN/J1939.

FEATURES:

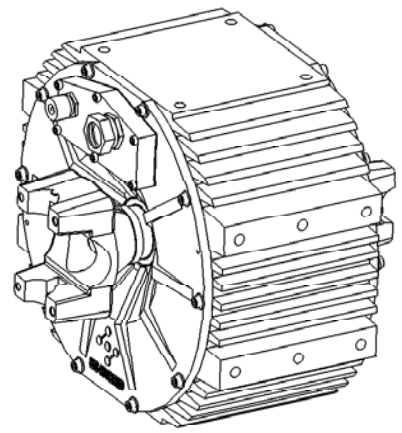
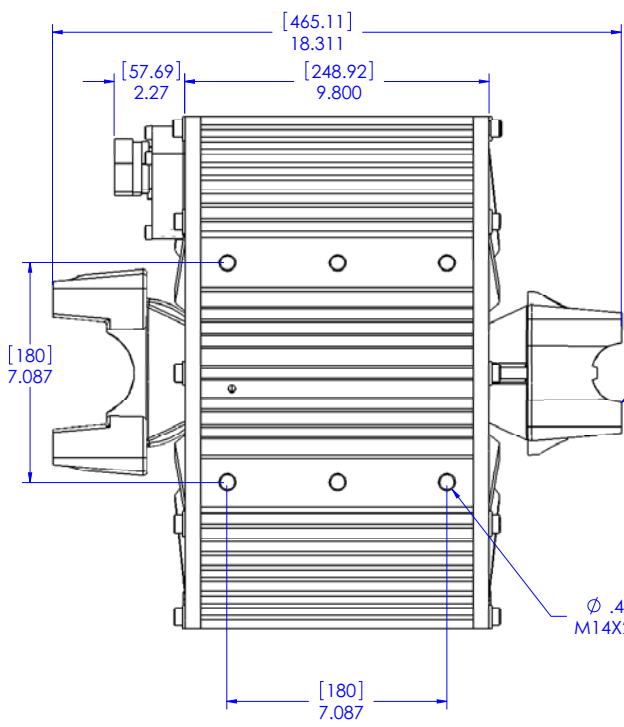
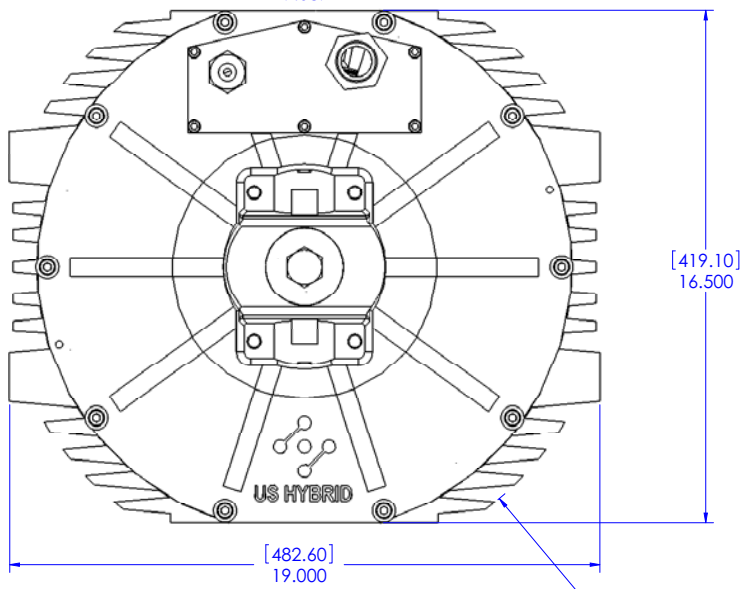
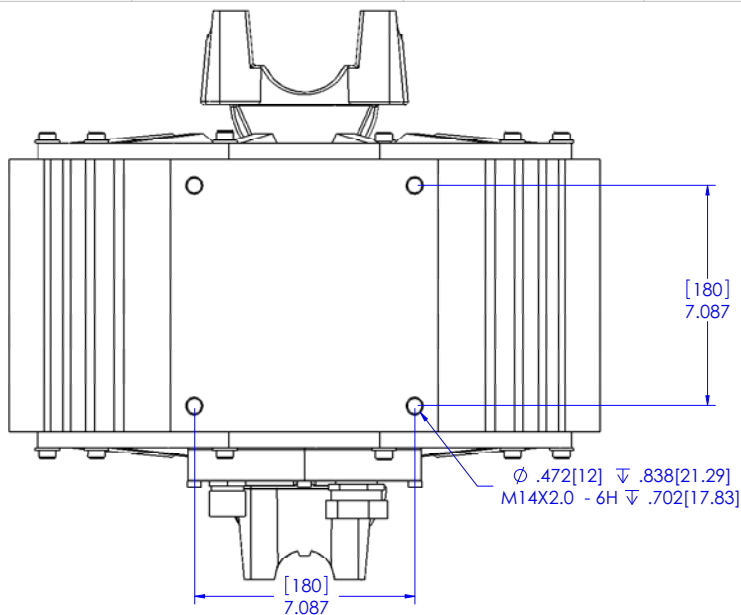
- Input voltage Medium Voltage: 250VDC - 450VDC or High voltage: 450VDC - 700VDC
- High Torque/power Density,
- Efficiency: 94% Motor, 96% Controller.
- CAN command, control and diagnostics.
- Output voltage can be regulated via CAN/Analog command.
- Vector controlled Torque or Speed Command.
- Motoring and Generation Capability



APPLICATIONS:

Electric and Fuel Cell Vehicles or Stationary Power Systems.

Motor Type	Permanent magnet
Torque (max)	1200Nm
Power (max)	120kW
Speed (max)	2500 rpm
Weight	95 kg
Input Voltage	Med V: 250Vdc-450Vdc High V: 450Vdc-700Vdc
Cooling	Air cooling, 45C
Shaft	DANA Spicer 1710 Yoke.
Efficiency	Motor > 96%
Isolation resistance	> 1 MΩ at 700Vdc



SPICER HR STYLE YOKE
P/N 6-4-9001-1X

NOTES: UNLESS OTHERWISE SPECIFIED

1. WEIGHT: 165 lbs [70 kg]

UNLESS OTHERWISE SPECIFIED:		NAME	DATE	
DIMENSIONS ARE IN INCHES		F. ERICSSON	07-21-08	
DECIMALS	THREE	DRAWN	CHECKED	TITLE 1000 Nm MOTOR OUTLINE & MOUNTING
FRACTIONS	AS SHOWN	DATE	DATE	
ANGLES	AS SHOWN	BY	BY	
TWO PLACE DECIMALS	THREE PLACE DECIMALS	DATE	DATE	
INTERPRET GEOMETRIC TOLERANCING PER ASME Y14.5	DATE	DATE	DATE	REV D MTT10000DA A
PROPRIETARY AND CONFIDENTIAL	DATE	DATE	DATE	SCALE: 1:2 SHEET 1 OF 1