

HSP 46 AC Commuter Locomotive



The power of HSP46

AC traction,
110 MPH top speed,
inverter HEP

 **MotivePower**
A **Wabtec** company

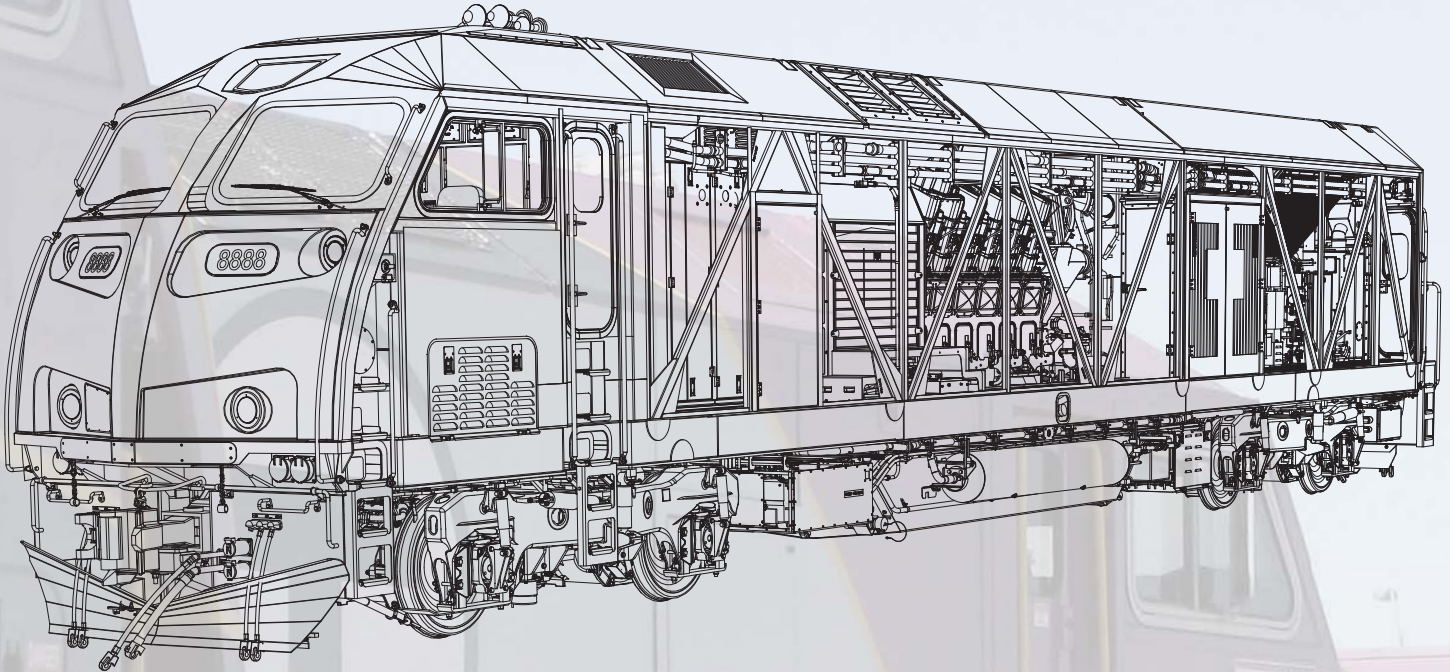
Solutions in Motion

HSP 46

AC Commuter Locomotive

MotivePower Inc. (MPI), a Wabtec company, introduced its HSP46 locomotive. In a partnership with GE, MPI built this Tier 3 AC propulsion, high horsepower locomotive for MBTA featuring state-of-the-art GE propulsion technology. MPI has the expertise and versatility to accommodate all your commuter

locomotive needs. With a proven track record and broad expert technical density, we work closely with our customers to provide long-term solutions to achieve the highest levels of safety, performance, operating efficiency and reliability.



HSP46 Specifications

Model	HSP46	Model	HSP46
Power	4,600 hp (Gross) 4,400 hp (Traction)	Trucks	MP1114, 4-wheel, Cast Frame w/ Traction Pivot
Tractive Effort	78,000 Continuous @ 13 MPH	Traction Motors	GEB-15, AC w/ Individual Axle Control
Rail Gauge	US Standard	Air Compressor	Wabco CMCBLAT-3 cyl, Air Cooled, Motor Driven
Mass	290,000 lbs	Brakes—Air	Wabtec FastBrake®, Blended w/ DB
Axle Load	72,500 lbs	Brakes—Dynamic	GE DB Grid System, Extended Range, Blended w/ FastBrake
Maximum Speed	90 mph	Cooling System	3 x 48" AC Powered Cooling Fans
Power Per Driving Axle	385 kW*	HEP	Inverter HEP, IGBT
Gear Ratio	74:29	HEP Power	600 kW, 480 VAC
Wheel Diameter	40"	Driver's Controls	Console Desk w/ SDIS and PTC provisions
Fuel Capacity	2,000 gallons	Control System	GE Consolidated Control Architecture
Dimensions		Special Features	
Length Over Couplers	71' 0"	• AC Traction	• PTC Provisioned
Height Over Rail Level	15' 4-1/2"	• Inverter HEP	• GPS Tracking and Diagnostics
Width	10' 0"	• Electronic Fuel Injection	
Bolster Centers	45' 0"	• FastBrake System	
Truck Wheelbase	9' 4"		
Curve (Single Unit)	288' (20°)		
Curve (W/ 85' Car)	288' (20°)		
Engine	GEVO12, 12-Cylinder, 4650 BHP		
Main Generator	GE 5GMG211 Traction w/ Integrated HEP Winding, Single Bearing		