

The Midwest Interstate Passenger Rail Commission AGM The Charger Locomotive Procurement September 28 & 29, 2016 in St Louis



Multi State Project Status

SIEMENS Ingenuity for life











Charger Tecl	nnical	Characteristics	SIEMENS Ingenuity for life
Loco type	High spe	eed with full streamlined carbody	
Power type	AC Dies	AC Diesel Electric	
Crashworthiness	CEM an	CEM and AAR-S-580	
Configuration:	Bo' Bo' s	single axle control	
Compatibility:	all Amtra	k DE and E Locomotives	
Environment	Amtrak	Amtrak environmental spec. 963	
Loco Length Couplers	71'6"	(21 655 mm)	
Loco Width	10'	(3022 mm)	
Loco Height	14'6"	(4385 mm)	
Clearance Diagram	D-05-13	D-05-1355 Amtrak	
Bogie centers	43'	(13 050 mm)	
Axle centers	118"		
 Track gauge 	4' 8.5"	(1435 mm)	
 Curve radius track 	min 250	min 250 ft (coupled to 85 ft coach)	
Wheel diameter	new 44"	worn 41"	
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Charger Technical Main Data

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Rated DE power	max. 4400 hp at engine speed 1800 rpm	
HEP power supply	800 kW (600 kW) (3AC 480 V), Redundant	
Aux power supply	≤ 150 kW (3AC 480 V), Redundant	
Starting tractive effort	65 000 lbs (290 kN)	
Continous tractive effort	61 800 lbs (275 kN)	
Brake effort	27 000 lbs (120 kN)	
Track super elevation	6" (9" design)	
Weight	271 000 lbs (base)	
Operating speed	max 125 mph	
Design speed	max 135 mph	
Fuel Capacity	max 2,200 gal (8400 liters)	
Engine type	16 cylinder 4 stroke Type Cummins QSK95	
Engine speed range	600 to 1800 rpm	
Emission standard	EPA Tier IV	
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