

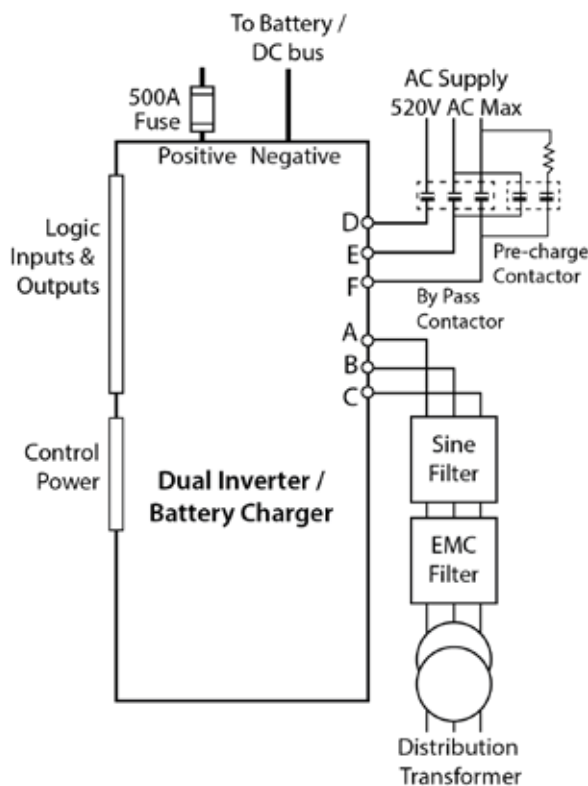
Locomotive Propulsion Modules

A300845 Dual Supply/ Charger

This module is a dual drive module consisting of a 3-phase inverter and a 3-phase to DC battery charger, with each having a capacity of 250kVA. The AC supply inverter is used to provide on-board utility power at 60 Hz (default). The battery charger converts AC voltage inputs to a DC voltage output for battery charging. The input current and output voltage are regulated with programmable limits that may vary when CAN Control is selected. Subject to the capacity of the AC supply connection, up to 150kW can be consumed from the DC bus for the purpose of battery charging, engine starting or operation of motors.

Protection Scheme

The module uses current, voltage, and temperature sensors along with analog and digital circuitry to protect itself with various hardware and software faults and warnings.



Applications

- Hybrid Systems
- Battery Systems



Dual Inverter / Charger

Specifications		
Part Number	Supply/ Charger Dual Module	
	A300845	
	Input	Output
Rated Power @Rated Volts	456kW	2x 225kW @ 0.8pf
Frequency range	DC	1x 60Hz / 1x 0 - 60Hz
Voltage Range	700 - 750V	2x 440 - 480VAC
Amps @ Rated Power	650A	2x 353A rms 3ph
Ambient Operating Temperature Range	-20°C to 60°C	
Coolant Temperature Range	-40°C to 70°C	
Control Supply Voltage	22 to 28V DC	
Control Supply Current	1.5A DC	
Minimum Coolant Flow	4 gal/min (15 l/min)	
Maximum Coolant Pressure	50 psig (3.5 bar)	

Typical Module Dimensions	
Height	864mm (34")
Width	127mm (5")
Depth	447mm (17.6")
Weight	46.7kg (103 lbs)

