Alternative Track
Motive Battery Charger

LIT-1200

1200W Motive Battery Charger

DC Output Options

24V
50A

36V
33.3A

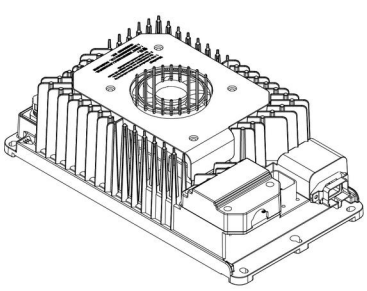
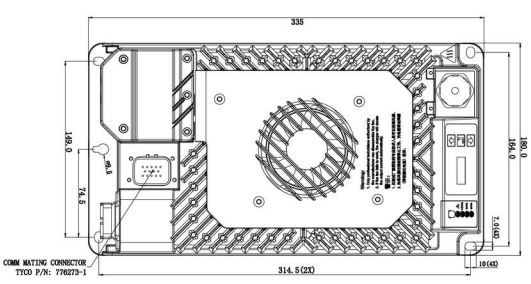
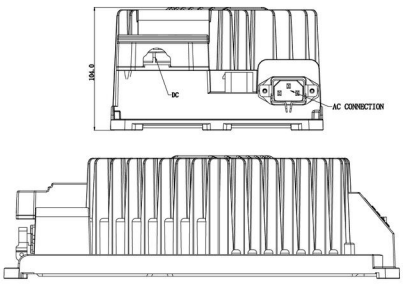
48V
25A

DC Output	24 VDC	36 VDC	48 VDC
Maximum DC output voltage	36 V	54 V	72 V
Maximum DC output current	50 A	33.3 A	25 A
Maximum DC output power	1200 W		
Deep discharge recovery (minimum voltage)	1.2 V	1.8 V	2.4 V
Maximum C3 interlock current	10 A	2 A	0.5 V
Battery type	Lead acid (wet / AGM / gel), lithium		
Reverse polarity	Electronic protection with auto-reset		
Short circuit	Electronic current limit		

AC Input		
AC input voltage range	85-270 VAC	
Nominal AC input voltage	100-240 VAC	
Nominal AC input frequency	50 / 60 Hz	
Maximum AC input current	14.5 A	
Nominal AC input current	13.4 A @ 100 VAC	5.5 A @ 240 VAC
Power factor	>0.99 @ 120 VAC	>0.98 @ 230 VAC

Regulatory	
Efficiency	90% at full load, 120 VAC, 48 VDC | 92% at full load, 240 VAC, 48 VDC California Energy Commission (CEC) compliant
Safety (LVD)	UL1564, CSA 107.2, EN 60335-2-29
Emissions (EMC)	FCC Part 15 / ICES 003 Class A, EN55011, EN 61000-6-4
Immunity (EMC)	EN 61000-3-2, EN 61000-3-3, EN 61000-6-2

Mechanical	
Dimensions	L335 x W180 x H104 mm
Weight	5 kg
AC input connector	IEC320 / C14 (requires country-specific cord)
DC output connector	M6 threaded fasteners for ring terminals (field replaceable)
Service port	Sealed (IP66) USB 2.0 Host Port (Type A) with dust cover
Mounting holes	6.4mm (1/4") diameter slots
Cooling	Active cooling with fan (Variable speed, field serviceable, field replaceable)

Environmental		
Enclosure	IP66 (NEMA4)	
Operating temperature	-40°C to +65°C	Derated at >40°C
Storage temperature	-40°C to +85°C	

Mechanical Reference