

MODEL 1620



DESCRIPTION

The Curtis 1620 Series switch-mode chargers are portable, 24VDC, 20A chargers that allow easy charging of electric vehicle batteries at any outlet.

APPLICATION

Curtis switch-mode battery chargers are ideal for the Material Handling market and electric vehicles utilizing 24V power, such as counterbalance trucks, order pickers, pallet trucks, reach trucks, scrubbers, stackers, sweepers, tugs, and walkies.

FEATURES

- Power limit charging (using algorithm) safely recovers deeply discharged batteries while preventing overcharging or battery damage.
- User programmability allows the user to optimize the charge profile for their specific battery.
- Microprocessor control and switch-mode operation allows for faster charging, and makes the charger suitable for all types of lead acid batteries.
- Lightweight and compact size offers space advantages over other chargers.
- Will charge a 200Ah battery in less than 12 hours, allowing batteries to be charged overnight.
- Automatic shutoff and restart to compensate for battery self-discharge.
- Forced-air cooling with temperature regulation means maximized power output.
- Internal thermal protection prevents the unit from damage due to over-temperature conditions.
- Thermal cutback operation allows the charger to continue charging at elevated temperatures, rather than shutting off.
- Output current is limited so as not to exceed the maximum power and/or thermal capacity of the charger.
- Output is short-circuit and reverse polarity protected, providing protection to both the charger and the operator.
- LEDs indicate AC Power On, Charging Status, and Fault Conditions, allowing for at-a-glance status indication.
- Motor controller inhibit signal present while the charger senses an AC input, ensuring the machine is immobilized and preventing drive-offs during charging.
- Optional mounting kit (not shown) for on-board charging applications.
- Rated to environmental protection of IP54 (including fan) to allow for operation in harsh environments.
- DC safe connect/disconnect means no sparks are generated when connecting the charger to the battery.
- Advanced design allows fan to be replaced without the use of tools, minimizing service downtime.

CURTIS INSTRUMENTS, INC.
 200 KISCO AVENUE
 MT. KISCO, NY 10549 USA
 TEL (914) 666-2971
 FAX (914) 666-2188

CURTIS INSTRUMENTS, (UK) LTD.
 5 UPPER PRIORY STREET
 NORTHAMPTON NN1 2PT, ENGLAND
 TEL 44 (0) 1604-629755
 FAX 44 (0) 1604-629876

**CURTIS INSTRUMENTS INDIA
 PRIVATE LTD.**
 1199, GHOLE ROAD
 PUNE 411004, INDIA
 TEL 91 (0) 20-5531288
 FAX 91 (0) 20-5539192

MODEL 1620

SPECIFICATIONS

INPUT: @ 120 VAC

Voltage: 100-132VAC
Frequency: 57-63
Input Current: 12A max. @ 60Hz
Input Leakage: 1mA max. @ 60Hz

EMC

Radiated emissions: FCC Part 15, Class A
Conducted emissions: FCC Part 15, Class A

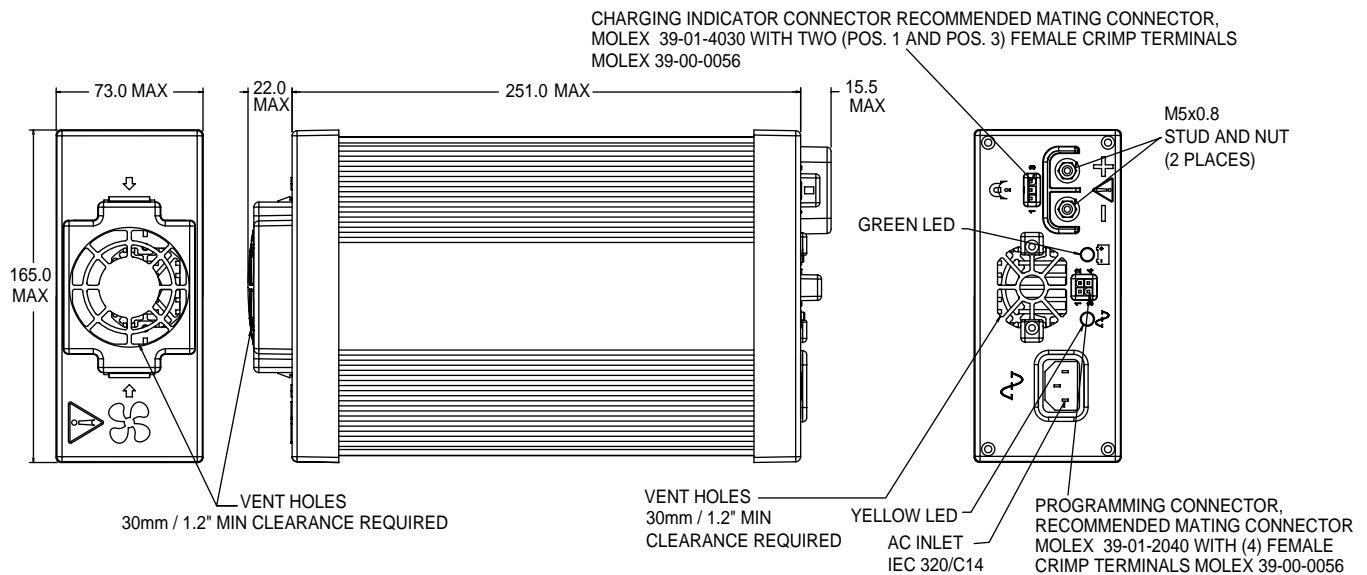
OUTPUT:

Voltage (min. – max.): Off, 5-32VDC
Current: 20A, max.
Power, Max.: 580W
Power, Nom.: 480W
Humidity: 95%, non-condensing at 38°C
Operating Temperature: 0°C to +50°C
Storage Temperature: -40°C to +85°C
Mechanical Shock: SAE J1378, 55g, 9-13ms pulse
Mechanical Vibration: 5g rms, 5-500Hz, 2 hours per axis

MODEL ENCODEMENT

Model Number	Cooling	Sealing	Input Voltage	Output Voltage	Output Current
1620FS-120/24/20-001	Fan	IP54	120 VAC	24VDC	20A

DIMENSIONS mm



WARRANTY Two year limited warranty from time of delivery.