LONG DURATION SERIES

TEL12-105F

VALVE REGULATED LEAD ACID BATTERY FOR COMMUNICATIONS STANDBY POWER APPLICATIONS

FEATURES

- Flame-arresting one-way pressure-relief vent for safety and long life.
- Thermally welded case-to-cover bond to ensure a leak-proof seal.
- Flame-retardant polypropylene case and cover compliant with UL94 V-0 with an Oxygen Limiting Index of greater than 28.
- Absorbent Glass Mat (AGM) technology for efficient gas recombination 99% plus.
- Thick positive plate design for maximum service float life – 10 year design life.
- Front accessible threaded copper alloy terminals for ease of assembly and reduced maintenance.
- Complies with UL1778, 924, 1989 and 94 V-0.
- UL-recognized component.

- Can be used in any orientation. Upright, side or end mounting recommended.

- Multicell design for ease of installation and maintenance.
- Not restricted for air transport – Complies with IATA/ICAO Special Provision A67
- Not restricted for surface transport – classified as non-hazardous material as related to DOT-CFR Title 49 parts 171-189
- Not restricted for water transport – classified as non-hazardous material per IMDG Amendment 27.
- Battery design allows for 48VDC configuration in a standard 23" relay rack in less than 10" height.
- Minimizes battery interconnection cost and resistance with supplied copper connectors.

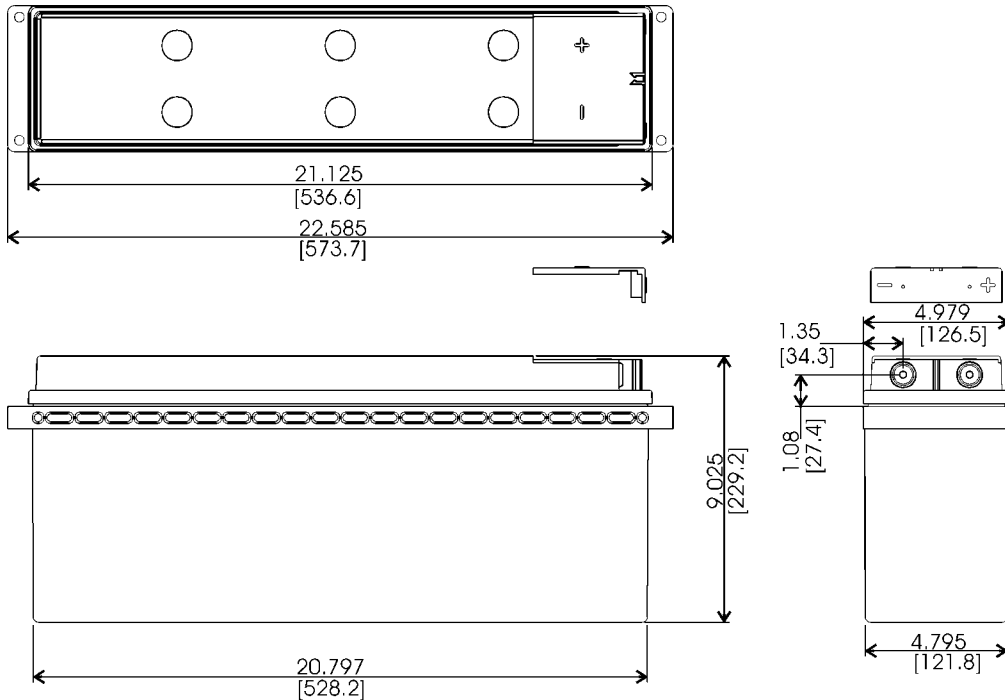## 12 Volts – 100 Ampere Hour Capacity @ 8 Hour Rate

Ampere Hour Capacity to 1.75 Volts per Cell @ 77°F (25°C)													
Discharge in Hours	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	10.00	12.00	20.00	24.00	72.00	100.00
Amp-Hr Capacity	66.3	77.6	84.6	89.2	92.5	95.4	98.0	100	102	104	109	110	117	119

TEL12-105F

DYNASTY DIVISION **C&D** TECHNOLOGIES, INC. | **TELE COM**

21.125 [536.6]
22.585 [573.7]
20.797 [528.2]
9.025 [229.2]
4.979 [126.5]
1.35 [34.3]
1.08 [27.4]
4.795 [121.8]

TEL12-105F – Specifications

*All dimensions in inches and (millimeters). All dimensions are for reference only.
Contact a C&D Representative for complete dimensional information.

Cells Per Unit	Voltage Per Unit	Weight	Electrolyte	Maximum Discharge Current	Short Circuit Current	Ohms Imped. 60 Hz (Ω)
6	12.84	80 lbs. 36 kg	Absorbed H_2SO_4 SG = 1.300	800 Amps	4000 Amps @ 0.1 sec.	0.0030 Ohms

Capacity	100 Ah @ 8 hour rate to 1.75 volts per cell @ 77˚F (25˚C) 98.1 Ah @ 10 hour rate to 1.80 volts per cell @ 20˚C (68˚F)
Operating Temperature Range	**Discharge;** -40˚F (-40˚C) to +160˚F (71˚C), **Charge;** -10˚F (-23˚C) to +140˚F (60˚C) (with temperature compensation)
Nominal Operating Temperature Range	+74˚F (23˚C) to +80˚F (27˚C)
Float Charging Voltage	13.5 to 13.8 VDC/unit Average @ 77˚F (25˚C)
Recommended Maximum Charging Current Limit	C/5 amperes (21.8 amps @ 100% depth of discharge)
Maximum AC Ripple (Charger)	0.5% RMS or 1.5% P-P of float charge voltage recommended for best results. Maximum voltage allowed = 4% P-P Maximum current allowed = 5.45 amperes RMS (C/20)
Self Discharge	Dynasty Telecom batteries may be stored for up to 6 months at 77˚F (25˚C) and then a freshening charge is required. For higher temperatures the time interval will be shorter.
Accessories	Inter unit connectors, racks and cabinet systems are available.
Terminal	Threaded copper alloy insert terminal to accept 1/4-20 UNC bolt.
Terminal Hardware Initial Torque	110 in.-lbs. (12.4 N-m).

Constant Current Discharge Ratings – Amperes @ 77°F (25°C)

End Point Volts/Cell	Operating Time to End Point Voltage (in hours)													
	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	10.00	12.00	20.00	24.00	72.00	100.00
1.75	66.3	38.8	28.2	22.3	18.5	15.9	14.0	12.5	10.2	8.68	5.45	4.59	1.63	1.19
1.80	64.7	38.1	27.8	21.9	18.2	15.7	13.8	12.3	10.1	8.54	5.36	4.52	1.60	1.16
1.85	61.3	36.6	26.8	21.2	17.6	15.2	13.3	11.9	9.75	8.26	5.18	4.37	1.54	1.12
1.90	55.1	33.3	24.5	19.4	16.2	13.9	12.2	11.0	8.97	7.60	4.76	4.01	1.41	1.03

Note: Buss connection designed for 0.375" (1.0 cm) battery spacing.
Batteries to be mounted with 0.3" (0.75 cm) spacing minimum and free air ventilation.
Refer to battery installation and operating instructions for additional information. Specifications subject to change without notification.