

12-1073

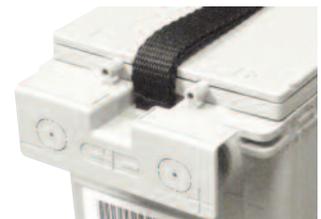


# C&D TRUE FRONT ACCESS®

## TEL Series Float Service



TEL12-190F



TEL12-190FG  
with TFA gas collection system



Typical Wireline Application



Typical Wireless Application

### BENEFITS:

- Long Life Float Service Design
  - Confirmed via 3rd party Certification
  - Premium alloy and material components
- True Front Access Design
  - True direct connect terminal for reliability
  - C&D Ohmic Ring® for accurate testing
  - Optional True Front Access gas collection system
  - Connection versatility
- Maximum Performance
  - Superior output due to direct terminal connection
  - Low internal resistance
- Compliant to major global specifications
  - British Standard BS 6290: Part 4: 1997
  - IEC 60896-21/22
  - Telcordia SR-4228
  - Eurobat Guide Classification: Long Life
  - Bellcore GR-63-CORE & GR-1089-CORE
  - UL94 V-0FR (V2 Optional)
  - Non-Hazardous, not restricted for any transportation mode (air, water or land)

### SPECIFICATIONS

Battery	Voltage Per Unit	Ampere Hour Capacity 8 Hour Rate @ 77°F (25°C) to 1.75 v/c	Ampere Hour Capacity 10 Hour Rate @ 68°F (20°C) to 1.80 v/c	Maximum Discharge Current	Short Circuit Current	Ohms Impedance 60 Hz (Ω)	Battery Weight
TEL12-190F/FG	12 V	190 Ah	188 Ah	800 Amperes	4500 Amperes	0.0035 Ohms	126 lbs/57 kg

## SPECIFICATIONS

Ampere Hour Capacity to 1.75 Volts per Cell @77°F (25°C)  
Discharge in Hrs.

Model	1	2	3	4	5	6	7	8	10	12	20	24
TEL12-190F/FG	130	151	162	170	178	182	187	190	196	198	208	211

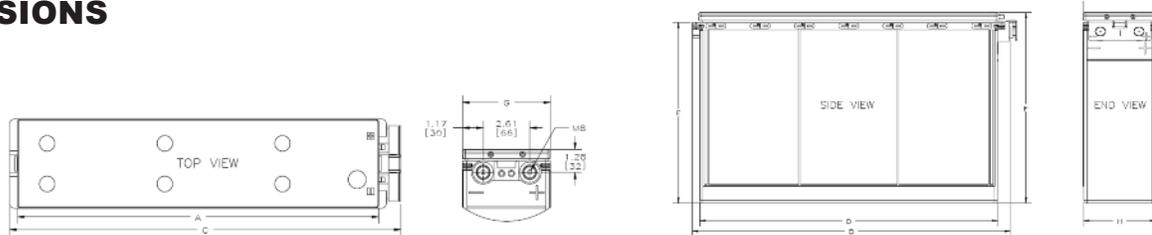
You may also access the product ratings by logging onto the C&D Battery Sizing program at [www.cdstandbypower.net](http://www.cdstandbypower.net)

Ampere Hour Capacity to 1.80 Volts per Cell @68°F (20°C)  
Discharge in Hrs.

Model	1	2	3	4	5	6	7	8	10	12	20	24
TEL12-190F/FG	121	142	153	162	168	173	177	180	188	191	204	204

You may also access the product ratings by logging onto the C&D Battery Sizing program at [www.cdstandbypower.net](http://www.cdstandbypower.net)

## DIMENSIONS



MODEL	A		B		C		D		E		F		G		H	
	in	mm	in	mm	in	mm										
TEL12-190F	20.3	516	21.5	546	22.0	559	20.1	512	12.2	310	12.6	320	4.9	126	4.8	123
TEL12-190FG	20.3	516	21.5	546	22.0	559	20.1	512	12.2	310	12.8	326	4.9	126	4.8	123

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

<b>Operating Temperature Range with temperature compensation</b>	Discharge: -40°F (-40°C) to 160°F (71°C) Charge: -10°F (-23°C) to 140°F (60°C)
<b>Nominal Operating Temperature Range</b>	+68°F (20°C) to +80°F (27°C)
<b>Recommended Maximum Charging Current Limit</b>	C <sub>20</sub> /5 Amperes (41.6A)
<b>Float Charging Voltage</b>	13.5 to 13.8 VDC average per 12V unit
<b>Maximum AC Ripple (Charger)</b>	0.5% RMS or 1.5% P-P of float charge voltage recommended for best results. Max voltage allowed = 1.4% RMS (4% P-P) Max current allowed = C <sub>20</sub> /20
<b>Self Discharge</b>	Battery can be stored up to 6 months at 77°F (25°C) before a freshening charge is required. Batteries stored at temperatures greater than 77°F (25°C) will require recharge sooner than batteries stored at lower temperatures. See C&D bulletin 41-7272, Self-Discharge and Inventory Control for details.
<b>Equalize charge and cycle service voltage</b>	14.40 to 14.80 VDC average per 12V unit @ 77°F (25°C)
<b>Terminal: Inserted - Inter-unit connector provided</b>	Threaded copper alloy insert terminal to accept M8 bolt
<b>Terminal Hardware Torque</b>	160 in.-lbs. (18 N-m)
<b>Telcordia Part Numbers</b>	<b>Battery Part Number</b> TEL12-190F/FG <b>CLEI Code</b> Pending <b>CPR</b> Pending

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