



## FOR STANDBY TELECOM, UPS, & UTILITY APPLICATIONS

IN CONTROLLED AND UNCONTROLLED TEMPERATURE ENVIRONMENTS

Capacities from 345 - 2180 Ampere-hours

The msEndur II is the most advanced 2V VRLA with features for Telecom, UPS, and Utility applications. As the original high-temperature-capable VRLA battery, msEndur II delivers decades of proven field performance. By combining the service life reliability of a flooded battery with the performance energy density of a valve-regulated battery, C&D has created the msEndur II — The True Long-Life Battery™.

The msEndur II series of batteries are unmatched in power density with space saving modular designs and have a 20-year design life to reduce the total cost of ownership.

With its much lower float current, the msEndur II yields significant electrical costs savings over its life making it the most environmentally friendly 2V VRLA battery and provides a longer service life in controlled and uncontrolled temperature environments.

### FEATURES & BENEFITS

#### ADVANCED SYSTEM FEATURES

- Modular design for ease of installation and stacking flexibility
- Space saving design for the greatest amount of power in a small footprint
- Certified as NEBS Level 3 and compliant to Earthquake Risk Zone 4 in various system configurations
- Compliant to highest levels of UBC, IBC, IEEE and NEBS seismic standards
- Tin-plated copper alloy connectors minimize maintenance
- New C&D Ohmic Ring® for ease of maintenance readings. With specially adapted probes only one technician is required to take readings

#### ADVANCED MATERIALS

- Advanced micro-porous **ABSORBED GLASS MAT** separators for ultra-low float current — reduces grid corrosion for a long, usable service life
- Proprietary calcium alloys to minimize positive grid corrosion and growth — maximizes battery life
- Robust polypropylene container and cover — enhances product quality and improves strength of materials for safe operation with flammability rating UL94 VO, LOI>28%
- Highly efficient, proprietary plate processing for high utilization of active material — results in high energy density and low float current

#### ADVANCED PROCESSES

- Advanced formation process results in a narrow float voltage window making on-site float matching unnecessary
- Highly controlled manufacturing processes for exceptional and consistent plate quality

#### ADVANCED HIGH TEMPERATURE CAPABILITY

- Low float current technology extends product life at higher application temperatures
- Natural convection through advanced module design promotes uniform temperature and enhances resistance to thermal walkaway events
- Warranties available for average application temperatures up to 95°F (35°C)

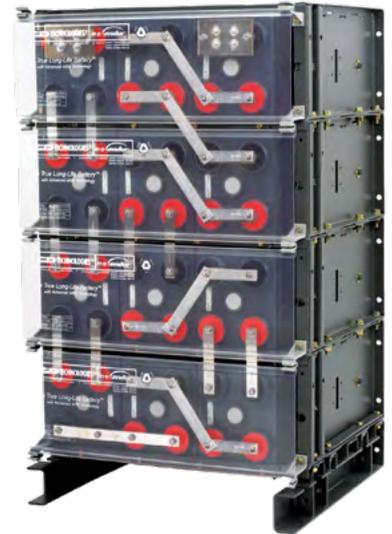
#### ADVANCED SERVICE LIFE & WARRANTY

- Proprietary cell design and manufacturing process provides for 20 year design life and documented long-lasting service life
- Industry leading warranty

#### ADVANCED EXPERIENCE

- Over 120 years of experience in the battery industry
- Storage capability of 18 months at 77°F (25°C) with minimum upkeep
- Fully backed by a worldwide network for local service

AGM



### APPLICATIONS

- Wireless
- Wireline
- Central Office
- Mobile Switching Centers
- Optical Transport
- Microwave
- Broadband Headend
- Network Operation Centers
- Switchgear & Control
- Industrial/Oil & Gas
- Data Centers

## SPECIFICATIONS AND CHARACTERISTICS

<b>CELLS, VOLTAGE PER UNIT</b>	1 cell, 2 VDC
<b>ENERGY SAVING OPERATING TEMPERATURE</b>	77°F (25°C)
<b>CONNECTION TORQUE:</b>	Initial: 160 in-lbs (18 N-m), Re-torque: 125 in-lbs (14 N-m)
<b>RECOMMENDED FLOAT CHARGING VOLTAGE (ATL RECOMMENDED FLOAT VOLTAGE)</b>	AT-P = 2.25 - 2.27 volts per cell average @ 77°F (25°C) ATL-P = 2.17 - 2.22 volts per cell average @ 77°F (25°C)
<b>CHARGER COMPENSATION TEMPERATURE / VOLTAGE</b>	(-)2 mV/cell/°F above 77°F (-3.6 mV/cell /°C above 25°C) +2 mV/cell/°F below 77°F (+3.6 mV/cell/°C below 25°C)

MODEL NAME	AT-07P ATL-07P	AT-09P ATL-09P	AT-11P ATL-11P	AT-13P ATL-13P	AT-15P ATL-15P	AT-17P ATL-17P	AT-19P ATL-19P	AT-21P ATL-21P	AT-23P ATL-23P	AT-25P ATL-25P	AT-27P ATL-27P	AT-29P ATL-29P	AT-35P ATL-35P	AT-39P ATL-39P
<b>NUMBER OF TERMINALS</b>	2	2	2	2	2	2	4	4	4	4	4	4	4	4
<b>8 HR AH RATE TO 1.75 V/C @ 77°F (25°C)</b>	345 / 295	480/390	600/490	640/515	840/685	920/780	1080/880	1150/980	1320/1075	1380/1175	1560/1270	1605/1370	2040/1660	2180/1855
<b>10 HR AH RATE TO 1.80 V/C @ 68°F (20°C)</b>	330 / 275	460/365	575/460	610/485	800/645	875/735	1030/825	1095/920	1260/1010	1315/1100	1490/1195	1535/1285	1945/1560	2085/1745

## CONSTANT CURRENT DISCHARGE RATINGS

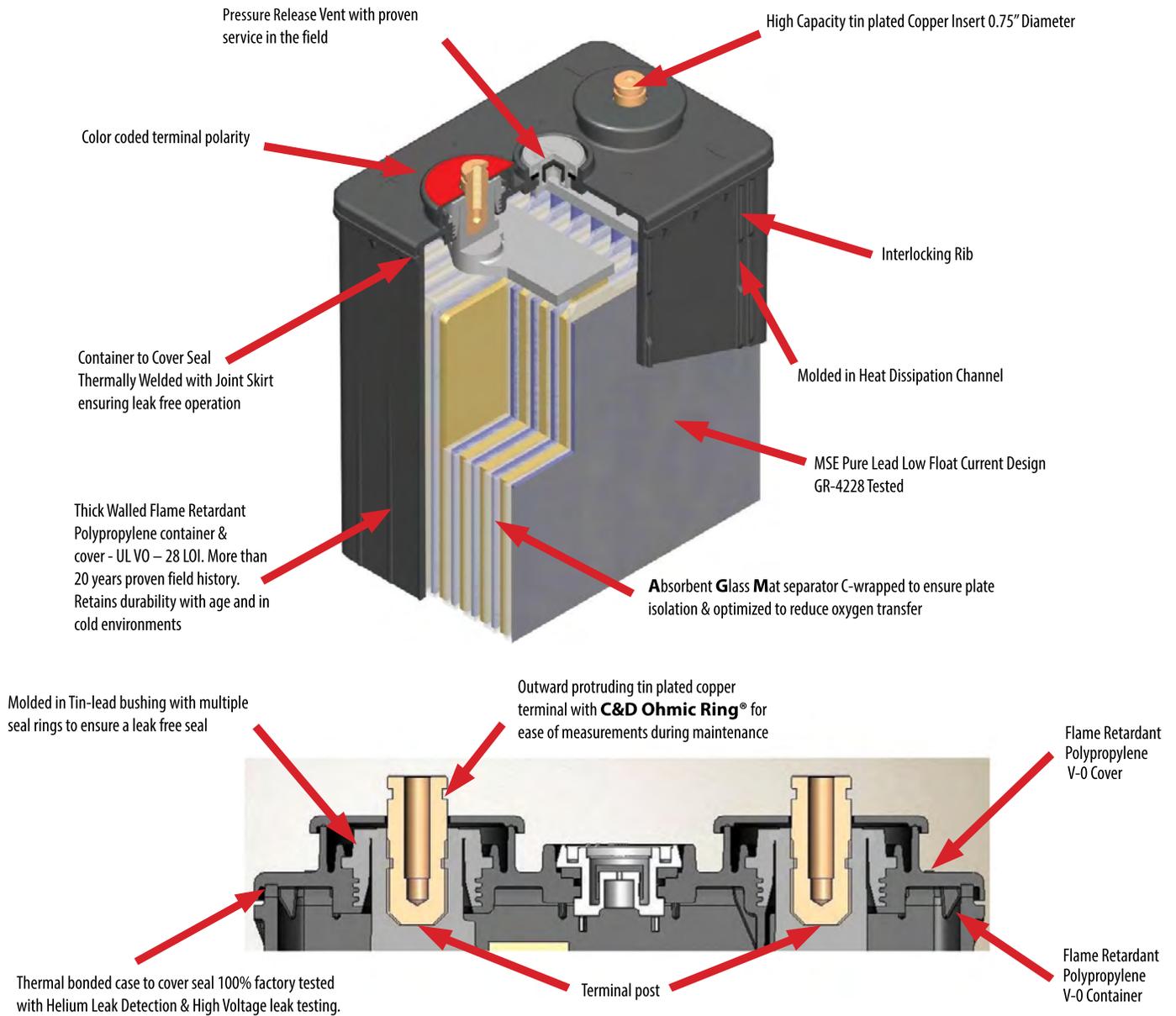
MODEL NAME	FV/CELL	1 HR	2 HR	3 HR	4 HR	5 HR	6 HR	8 HR	10 HR	12 HR	24 HR
<b>AMPERES @ 77°F (25°)</b>											
<b>AT-07P</b>	<b>1.75</b>	189	123	93	75	63	55	43	36	30	16
<b>AT-09P</b>		259	170	129	104	88	76	60	50	42	23
<b>AT-11P</b>		324	213	161	130	110	95	75	62	53	28
<b>AT-13P</b>		352	228	172	139	117	101	80	66	56	30
<b>AT-15P</b>		454	298	225	182	154	133	105	87	74	40
<b>AT-17P</b>		505	327	247	200	168	145	115	95	81	43
<b>AT-19P</b>		583	383	290	234	198	171	135	112	95	51
<b>AT-21P</b>		631	409	309	250	210	183	144	119	101	54
<b>AT-23P</b>		713	468	354	287	241	209	165	136	116	62
<b>AT-25P</b>		757	491	370	299	252	218	172	143	122	65
<b>AT-27P</b>		843	553	418	339	285	247	195	161	138	73
<b>AT-29P</b>		884	573	432	349	294	255	201	166	142	76
<b>AT-35P</b>		1102	723	547	443	373	323	255	211	180	96
<b>AT-39P</b>		1199	777	586	474	399	345	273	226	193	103

Additional ratings and application information are available in the Battery Selection Program found at [solutionportal.cdtechno.com](http://solutionportal.cdtechno.com)

## CONSTANT POWER DISCHARGE RATINGS

MODEL NAME	FV/CELL	1 MIN	5 MIN	10 MIN	15 MIN	20 MIN	30 MIN	45 MIN	1 HR
<b>KILOWATTS @ 77°F (25°)</b>									
<b>AT-07P</b>	<b>1.67</b>	0.837	0.791	0.730	0.669	0.612	0.520	0.430	0.373
<b>AT-09P</b>		1.117	1.055	0.973	0.892	0.816	0.693	0.574	0.497
<b>AT-11P</b>		1.396	1.318	1.217	1.115	1.020	0.866	0.717	0.622
<b>AT-13P</b>		1.558	1.471	1.358	1.244	1.138	0.967	0.800	0.694
<b>AT-15P</b>		1.954	1.846	1.704	1.561	1.427	1.213	1.004	0.870
<b>AT-17P</b>		2.233	2.110	1.947	1.784	1.631	1.386	1.147	0.995
<b>AT-19P</b>		2.512	2.373	2.190	2.007	1.835	1.559	1.291	1.119
<b>AT-21P</b>		2.792	2.637	2.434	2.230	2.039	1.733	1.434	1.243
<b>AT-23P</b>		3.071	2.901	2.677	2.452	2.243	1.906	1.578	1.368
<b>AT-25P</b>		3.350	3.164	2.920	2.675	2.447	2.079	1.721	1.492
<b>AT-27P</b>		3.629	3.428	3.164	2.898	2.651	2.253	1.864	1.617
<b>AT-29P</b>		3.908	3.692	3.407	3.121	2.855	2.426	2.008	1.741
<b>AT-35P</b>							2.946	2.438	2.114
<b>AT-39P</b>								2.725	2.363

Please refer to the msEndur II Stackable Module System with Module Dimensions and Weights brochure, 12-1014, for a listing of typical msEndur II Module Systems dimensions and weights. Please refer to the msEndur II Performance Specifications Brochure, 12-1015, for an expanded list of constant power and constant current ratings and end voltages. You may also access the product ratings by logging onto the C&D Battery Sizing Program at [solutionportal.cdtechno.com](http://solutionportal.cdtechno.com)



## MODULES

msEndur II cells are designed to be mounted in various widths and heights. The specific cell width x module high system configuration is flexible and can be configured to best match the physical requirements of the customer's site.

Dependent upon seismic requirements, desired system voltage, weight and dimensional requirements.



©2026 C&D Technologies Inc. Any data, descriptions or specifications presented herein are subject to revision by C&D Technologies, Inc. without notice. While such information is believed to be accurate as indicated herein, C&D Technologies, Inc. makes no warranty and hereby disclaims all warranties, express or implied, with regard to the accuracy or completeness of such information. Further, because the product(s) featured herein may be used under conditions beyond its control, C&D Technologies, Inc. hereby disclaims all warranties, either express or implied, concerning the fitness or suitability of such product(s) for any particular use or in any specific application or arising from any course of dealing or usage of trade. The user is solely responsible for determining the suitability of the product(s) featured herein for user's intended purpose and in user's specific application. REV: 02/20/26

200 Precision Drive, Horsham, Pennsylvania 19044 USA | [www.cdtechno.com](http://www.cdtechno.com)

**C&D**  
**TECHNOLOGIES**