

PURE **Pb**  
MAX

## PURE LEAD MAX

Change your battery. Change your world.

**C&D**  
TECHNOLOGIES

PLM

2023021



**Pure Lead Max is C&D's longest lasting VRLA battery for UPS systems and has an industry-leading 8-year warranty**

## BENEFITS



### Longest Life

Proprietary pure lead technology combined with catalyst design extends battery life to just a single replacement cycle



### Support Sustainability

Pure Lead Max batteries are 98% recyclable and manufactured with up to 80% of recycled materials



### Industry-Leading Warranty

8-year warranty backed by market leader and proven technology



### Safe Choice

No limitations on where it can be deployed



### Reduce Footprint

Extensive portfolio to reduce footprint by up to 28% and battery quantity by up to 40% vs leading competitor



### Up to 38% Less Maintenance Costs

Based on recommended maintenance schedule

## FEATURES

- 16 year design life
- Eurobat: Very Long Life
- Catalyst technology extends service life
- MSE's Advanced proprietary paste processing for high active material utilization resulting in low float current
- Patented Long-Life Alloy in the grids to minimize grid growth, reduce gassing, and extend battery life
- Available in both Top terminal and TFA (True Front Access) formats
- Our TFA design maximizes energy density and minimizes internal resistance by providing a direct connection from the plates to the terminals
- Patented UL Recognized Flame-arresting vents in each cell for safety
- Thermally welded and helium leak tested case-to-cover bond ensures a robust leak proof seal
- Can be operated in any orientation
- Published rates down to 1 minute

## TECHNICAL DATA

MODEL	CONSTANT CURRENT			CONSTANT POWER RATINGS		DIMENSIONS (L*W*H*TOTAL HEIGHT)								WEIGHT	
	C8 1.75 @25°C	C20 1.75 @25°C	C10 1.80 @20°C	5 MIN	15 MIN	LENGTH		WIDTH		HEIGHT		TOTAL HEIGHT		LBS	KG
						MM	Inches	MM	Inches	MM	Inches	MM	Inches		
UPS12-305PLM	74	78	69	571.3	315.0	261	10.3	174	6.9	200	7.9	203	8.0	58	26.3
UPS12-355PLM	88	94	83	685.3	365.5	306	12.0	173	6.8	203	8.0	205	8.1	67	30.4
UPS12-405PLM	95	104	90	710.0	402.4	341	13.4	173	6.8	213	8.4	216	8.5	76	34.5
UPS12-495PLM	130	140	123	812.8	492.0	345	13.6	173	6.8	275	10.8	278	10.9	103	46.7
UPS12-545PLM	137	146	128	920.1	542.0	345	13.6	173	6.8	275	10.8	278	10.9	107	48.5
UPS12-605PLM	139	148	132	968.8	602.9	345	13.6	173	6.8	275	10.8	278	10.9	113	51.2
UPS12-675PLMF	172	179	163	1,100.2	671.4	551	21.7	126	4.96	282	11.1	282	11.1	125	56.7
UPS12-705PLMF	191	206	182	1,165.9	707.0	551	21.7	126	4.96	318	12.5	318	12.5	149	67.5
UPS12-1005PLMF	238	254	227	1,600.0	1,010.0	551	21.7	156	6.1	322	12.7	322	12.7	188	85.3

## ADDITIONAL DATA

MODEL	VOLTAGE	TERMINAL	CELLS PER UNIT	MAXIMUM DISCHARGE CURRENT (AMPS)	SHORT CIRCUIT CURRENT (AMPS @ 0.1 SEC)	TERMINAL TYPE	TERMINAL TORQUE
UPS12-305PLM	12	Top	6	800	3600	1/4-20 UNC	110 in.-lbs. (12.4 N-m)
UPS12-355PLM	12	Top	6	800	4200	1/4-20 UNC	110 in.-lbs. (12.4 N-m)
UPS12-405PLM	12	Top	6	800	4700	1/4-20 UNC	110 in.-lbs. (12.4 N-m)
UPS12-495PLM	12	Top	6	800	5000	1/4-20 UNC	110 in.-lbs. (12.4 N-m)
UPS12-545PLM	12	Top	6	800	5000	1/4-20 UNC	110 in.-lbs. (12.4 N-m)
UPS12-605PLM	12	Top	6	800	5000	1/4-20 UNC	110 in.-lbs. (12.4 N-m)
UPS12-675PLMF	12	Front	6	800	5100	1/4-20 UNC	110 in.-lbs. (12.4 N-m)
UPS12-705PLMF	12	Front	6	900	5500	1/4-20 UNC	110 in.-lbs. (12.4 N-m)
UPS12-1005PLMF	12	Front	6	1200	6048	Insert (M8)	160 in.-lbs (18.1 N-m)

**Note:** Additional product details available on the C&D Battery Sizing Program at [www.cdstandbypower.net](http://www.cdstandbypower.net). Cabinet systems also available.

\* Constant power ratings are to 1.67 VPC @ 77°F (25°C) and capacity rated to 1.75 VPC @ 77°F (25°C). Above ratings do not include interunit connector voltage drops.

\*\* For reference only. Individual baselines recommended for diagnostic purposes.

## SPECIFICATIONS

<b>OPERATING TEMPERATURE RANGE WITH TEMPERATURE COMPENSATION</b>	Discharge: -40°F (-40°C) to +140°F (+60°C) Charge: -10°F (-23°C) to +122°F (+50°C)
<b>NOMINAL OPERATING TEMPERATURE RANGE</b>	+74°F (+23°C) to +80°F (+27°C)
<b>RECOMMENDED MAXIMUM CHARGING CURRENT LIMIT</b>	C20/5 amperes (20 hr. rate)
<b>FLOAT CHARGE VOLTAGE</b>	13.65 ± 0.15 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/20 (20 hr. rate)
<b>SELF DISCHARGE</b>	Batteries can be stored up to 24 months at +77°F (+25°C) before 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 brochure 41-7272, Self-Discharge and Inventory Control for details.
<b>EQUALIZE AND CYCLE SERVICE CHARGE VOLTAGE</b>	14.40 to 14.80 VDC average per 12V unit @ +77°F (+25°C)
<b>TERMINAL: INSERTED</b>	Top Terminal Batteries: 1/4-20 UNC Bolt Front Terminal Batteries: 1/4-20 UNC Bolt / Insert (M8)
<b>TERMINAL HARDWARE INITIAL TORQUE: INSERTED TERMINAL</b>	Top Terminal Batteries: 110 in.-lbs (12.4 N-m) Front Terminal Batteries 160 in.-lbs (M8) or 110 in.-lbs (1/4-20)

# UPS12-675PLMF

# FRONT TERMINAL



END POINT VOLTS/CELL	CONSTANT POWER DISCHARGE RATINGS - WATTS PER CELL @ +77F (+25C)										
	OPERATING TIME TO END POINT VOLTAGE (IN MINUTES)										
	1	2	3	4	5	10	15	20	30	45	60
1.75					985.2	760.6	621.9	528.3	409.1	308.1	248.1
1.70	1,372.5	1,287.2	1,207.3	1,133.5	1,066.0	813.3	657.0	552.9	422.7	314.7	251.6
1.67	1,504.4	1,376.8	1,269.6	1,178.5	1,100.2	830.8	671.4	565.0	430.8	318.9	253.6
1.65	1,546.7	1,414.4	1,302.6	1,207.2	1,125.3	844.4	679.7	570.5	433.7	320.2	254.3
1.60	1,634.1	1,495.3	1,374.4	1,269.9	1,179.5	871.6	695.0	580.2	438.5	322.7	255.9
END POINT VOLTS/CELL	CONSTANT CURRENT DISCHARGE RATINGS - AMPS @ +77°F (+25°C)										
	OPERATING TIME TO END POINT VOLTAGE (IN HOURS)										
	1	2	3	5	8	10	12	20	24		
1.90	103.9	62.4	44.9	28.9	18.9	15.3	12.9	7.9	6.6		
1.85	117.2	69.1	49.4	31.6	20.6	16.7	14.1	8.6	7.2		
1.80	121.6	71.3	51.1	32.8	21.3	17.3	14.6	8.9	7.5		
1.75	125.6	72.7	51.9	33.1	21.5	17.4	14.7	9.0	7.5		

# UPS12-705PLMF

END POINT VOLTS/CELL	CONSTANT POWER DISCHARGE RATINGS - WATTS PER CELL @ +77F (+25C)										
	OPERATING TIME TO END POINT VOLTAGE (IN MINUTES)										
	1	2	3	4	5	10	15	20	30	45	60
1.75					1,073.7	807.5	636.3	549.6	441.4	334.1	274.2
1.70	1,393.2	1,393.2	1,278.7	1,174.7	1,140.1	864.1	675.7	575.9	453.5	339.3	276.2
1.67	1,424.7	1,424.7	1,307.7	1,201.3	1,165.9	910.0	707.0	588.8	457.5	341.5	277.4
1.65	1,443.1	1,443.1	1,324.5	1,216.8	1,181.0	928.2	710.0	596.0	461.6	343.1	278.0
1.60	1,477.2	1,477.2	1,354.2	1,242.7	1,204.9	944.8	723.2	607.4	470.1	348.3	281.4
END POINT VOLTS/CELL	CONSTANT CURRENT DISCHARGE RATINGS - AMPS @ +77°F (+25°C)										
	OPERATING TIME TO END POINT VOLTAGE (IN HOURS)										
	1	2	3	5	8	10	12	20	24		
1.90	105.1	62.4	47.1	31.1	20.9	17.2	14.7	9.3	7.9		
1.85	121.0	69.8	50.3	32.9	22.1	18.2	15.5	9.7	8.2		
1.80	127.2	72.6	52.6	35.0	23.4	19.2	16.3	10.0	8.4		
1.75	134.7	75.2	54.4	36.0	23.9	19.6	16.6	10.3	8.7		

# UPS12-1005PLMF

END POINT VOLTS/CELL	CONSTANT POWER DISCHARGE RATINGS - WATTS PER CELL @ +77F (+25C)										
	OPERATING TIME TO END POINT VOLTAGE (IN MINUTES)										
	1	2	3	4	5	10	15	20	30	45	60
1.75					1,440.8	1,112.4	916.8	771.4	595.6	435.5	348.8
1.70	1,898.2	1,898.2	1,748.4	1,611.8	1,553.4	1,195.4	992.8	809.7	612.2	446.4	356.8
1.67	1,955.1	1,955.1	1,800.9	1,660.1	1,600.0	1,230.0	1,010.0	831.9	622.3	452.2	360.5
1.65	1,991.8	1,991.8	1,834.7	1,691.3	1,630.0	1,250.5	1,024.6	842.4	628.5	455.9	363.0
1.60	2,039.1	2,039.1	1,875.8	1,727.3	1,663.0	1,272.9	1,043.7	858.5	640.0	462.8	367.4
END POINT VOLTS/CELL	CONSTANT CURRENT DISCHARGE RATINGS - AMPS @ +77°F (+25°C)										
	OPERATING TIME TO END POINT VOLTAGE (IN HOURS)										
	1	2	3	5	8	10	12	20	24		
1.90	148.5	84.7	60.6	39.1	25.6	20.9	17.8	11.1	9.4		
1.85	168.0	96.1	67.9	43.2	28.1	22.9	19.4	12.0	10.2		
1.80	181.1	102.0	71.3	45.0	29.3	23.9	20.2	12.5	10.6		
1.75	187.5	104.1	72.1	45.4	29.7	24.3	20.6	12.7	10.7		

## UPS12-305PLM

# TOP TERMINAL



END POINT VOLTS/CELL	CONSTANT POWER DISCHARGE RATINGS - WATTS PER CELL @ +77°F (+25°C)										
	OPERATING TIME TO END POINT VOLTAGE (IN MINUTES)										
	1	2	3	4	5	10	15	20	30	45	60
1.75					515.5	362.4	293.9	235.0	177.4	130.5	103.4
1.70	868.9	742.7	666.9	592.6	549.0	381.5	306.8	243.7	182.4	133.0	104.8
1.67	900.0	775.2	696.3	617.7	571.3	393.8	315.0	249.4	185.8	135.0	106.2
1.65	916.9	793.7	713.3	632.4	584.2	400.6	319.5	252.3	187.4	135.8	106.7
1.60	952.5	817.6	730.7	645.3	594.7	406.1	323.8	255.9	190.4	138.2	108.7
END POINT VOLTS/CELL	CONSTANT CURRENT DISCHARGE RATINGS - AMPS @ +77°F (+25°C)										
	OPERATING TIME TO END POINT VOLTAGE (IN HOURS)										
	1	2	3	5	8	10	12	20	24		
1.90	42.9	26.0	18.8	12.2	8.0	6.5	5.5	3.4	2.8		
1.85	49.1	28.5	20.2	12.9	8.5	6.9	5.8	3.6	3.0		
1.80	52.1	29.5	21.0	13.6	9.0	7.3	6.2	3.8	3.2		
1.75	53.1	30.1	21.5	14.0	9.3	7.5	6.4	3.9	3.3		

## UPS12-355PLM

END POINT VOLTS/CELL	CONSTANT POWER DISCHARGE RATINGS - WATTS PER CELL @ +77°F (+25°C)										
	OPERATING TIME TO END POINT VOLTAGE (IN MINUTES)										
	1	2	3	4	5	10	15	20	30	45	60
1.75					598.8	429.1	339.7	235.0	177.4	152.4	120.1
1.70	1,005.9	873.4	781.7	701.0	659.2	454.0	352.8	283.2	212.5	155.1	122.3
1.67	1,045.0	905.0	811.2	728.3	685.3	471.7	365.5	292.5	218.3	158.4	124.3
1.65	1,073.7	932.8	836.9	751.4	707.0	485.1	374.6	298.9	221.9	160.2	125.4
1.60	1,153.7	967.2	862.7	772.5	725.6	495.6	381.4	303.5	224.5	161.4	126.0
END POINT VOLTS/CELL	CONSTANT CURRENT DISCHARGE RATINGS - AMPS @ +77°F (+25°C)										
	OPERATING TIME TO END POINT VOLTAGE (IN HOURS)										
	1	2	3	5	8	10	12	20	24		
1.90	47.5	28.5	20.4	12.2	8.4	6.8	5.8	3.5	2.9		
1.85	53.7	32.0	23.1	15.2	10.2	8.4	7.1	4.4	3.8		
1.80	59.5	34.6	24.7	16.1	10.7	8.8	7.4	4.6	3.9		
1.75	62.8	36.5	26.1	16.8	11.0	9.0	7.6	4.7	4.0		

Note: Specifications subject to change without notification. Above ratings do not include interunit connector voltage drops.

# UPS12-405PLM

# TOP TERMINAL



END POINT VOLTS/CELL	CONSTANT POWER DISCHARGE RATINGS - WATTS PER CELL @ +77°F (+25°C)										
	OPERATING TIME TO END POINT VOLTAGE (IN MINUTES)										
	1	2	3	4	5	10	15	20	30	45	60
1.75					624.0	466.2	374.8	313.5	236.1	171.9	135.0
1.70	1,114.5	931.4	823.8	745.7	684.4	495.3	392.2	325.6	243.8	177.3	139.4
1.67	1,158.5	969.0	856.6	774.6	710.0	510.8	402.4	332.7	247.5	179.0	140.2
1.65	1,203.9	1,013.2	892.0	802.9	733.0	520.7	407.9	336.4	249.8	180.6	141.6
1.60	1,285.9	1,059.1	925.8	830.2	755.9	533.2	416.1	342.2	253.2	182.5	142.8
END POINT VOLTS/CELL	CONSTANT CURRENT DISCHARGE RATINGS - AMPS @ +77°F (+25°C)										
	OPERATING TIME TO END POINT VOLTAGE (IN HOURS)										
	1	2	3	5	8	10	12	20	24		
1.90	50.5	29.6	21.7	14.7	10.1	8.3	7.1	4.4	3.7		
1.85	57.4	34.2	24.5	16.0	10.8	8.9	7.6	4.8	4.1		
1.80	63.2	36.9	26.2	17.1	11.5	9.4	8.0	5.1	4.3		
1.75	67.9	38.6	27.5	17.9	11.9	9.8	8.3	5.2	4.4		

# UPS12-495PLM

END POINT VOLTS/CELL	CONSTANT POWER DISCHARGE RATINGS - WATTS PER CELL @ +77°F (+25°C)										
	OPERATING TIME TO END POINT VOLTAGE (IN MINUTES)										
	1	2	3	4	5	10	15	20	30	45	60
1.75					701.3	542.5	445.0	384.8	303.3	230.0	185.0
1.70	1,069.9	971.9	892.9	822.7	776.3	588.5	470.6	404.2	313.8	235.5	188.6
1.67	1,128.6	1,022.8	937.8	862.7	812.8	612.1	492.0	416.3	321.1	239.4	190.9
1.65	1,147.7	1,050.7	965.5	887.6	835.4	626.5	501.7	423.8	325.8	242.3	192.9
1.60	1,268.1	1,116.7	1,014.8	927.2	869.0	643.6	512.4	431.0	239.9	244.5	194.4
END POINT VOLTS/CELL	CONSTANT CURRENT DISCHARGE RATINGS - AMPS @ +77°F (+25°C)										
	OPERATING TIME TO END POINT VOLTAGE (IN HOURS)										
	1	2	3	5	8	10	12	20	24		
1.90	73.3	43	31.2	20.8	14.1	11.6	9.9	6.3	5.3		
1.85	82.3	48.5	34.9	22.8	15.2	12.5	10.6	6.6	5.6		
1.80	87.5	51.7	36.9	23.9	15.9	13.0	11.0	6.8	5.8		
1.75	92.3	53.9	38.3	24.7	16.3	13.3	11.3	7.0	5.9		

Note: Specifications subject to change without notification. Above ratings do not include interunit connector voltage drops.

# UPS12-545PLM

# TOP TERMINAL



END POINT VOLTS/CELL	CONSTANT POWER DISCHARGE RATINGS - WATTS PER CELL @ +77°F (+25°C)										
	OPERATING TIME TO END POINT VOLTAGE (IN MINUTES)										
	1	2	3	4	5	10	15	20	30	45	60
1.75					765.2	581.8	477.3	409.4	319.7	240.8	193.1
1.70	1,206.8	1,105.8	1,002.5	925.0	874.3	643.0	516.5	436.5	334.4	247.9	197.1
1.67	1,270.0	1,158.4	1,052.5	972.6	920.1	676.7	542.0	455.8	346.2	254.0	200.4
1.65	1,331.0	1,220.4	1,104.7	1,017.3	959.4	698.2	555.4	465.6	352.1	257.6	203.0
1.60	1,366.9	1,259.2	1,137.1	1,044.7	983.2	710.1	562.4	470.2	354.4	258.8	203.8
END POINT VOLTS/CELL	CONSTANT CURRENT DISCHARGE RATINGS - AMPS @ +77°F (+25°C)										
	OPERATING TIME TO END POINT VOLTAGE (IN HOURS)										
	1	2	3	5	8	10	12	20	24		
1.90	75.8	44.4	32.3	21.4	14.5	11.9	10.2	6.4	5.4		
1.85	84.1	49.6	35.7	23.4	15.7	12.9	11.0	6.9	5.8		
1.80	90.7	53.2	38.2	24.8	16.5	13.5	11.5	7.1	6.0		
1.75	99.8	57.0	40.4	26.0	17.1	14.0	11.8	7.3	6.2		

# UPS12-605PLM

END POINT VOLTS/CELL	CONSTANT POWER DISCHARGE RATINGS - WATTS PER CELL @ +77°F (+25°C)										
	OPERATING TIME TO END POINT VOLTAGE (IN MINUTES)										
	1	2	3	4	5	10	15	20	30	45	60
1.75					868.2	689.7	556.9	465.0	351.8	260.9	208.8
1.70	1,328.6	1,201.6	1,094.8	1,006.2	945.8	726.6	582.1	479.1	357.7	263.4	210.4
1.67	1,395.5	1,260.7	1,142.4	1,047.1	968.8	752.7	602.9	496.0	366.0	266.8	212.1
1.65	1,412.8	1,277.4	1,158.4	1,061.3	989.6	761.1	605.8	499.4	368.2	268.0	212.8
1.60	1,483.9	1,336.8	1,208.2	1,105.7	1,040.0	798.8	629.8	518.3	378.6	273.1	215.9
END POINT VOLTS/CELL	CONSTANT CURRENT DISCHARGE RATINGS - AMPS @ +77°F (+25°C)										
	OPERATING TIME TO END POINT VOLTAGE (IN HOURS)										
	1	2	3	5	8	10	12	20	24		
1.90	89.3	51	36	23.1	15.1	12.3	10.3	6.4	5.4		
1.85	98.0	55.1	38.8	25.1	16.5	13.3	11.2	6.9	5.8		
1.80	103.8	58.1	41.2	26.6	16.9	13.9	11.7	7.2	6.1		
1.75	104.8	59.0	41.7	26.7	17.4	14.4	11.9	7.4	6.2		

Note: Specifications subject to change without notification. Above ratings do not include interunit connector voltage drops.

## Certifications & Compliances

TAA Compliant

Complies with UL1973, UL1778, UL1989, UL924, UL94 V-2, UL94V-0, BS6290-4, IEC60896-22

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