



**HIGH
RATE
MAX^{XT}**



**Valve Regulated Lead Acid Battery
Designed for UPS Standby Power Applications**

APPLICATIONS

- Data Centers
- Network Operation Centers
- Industrial Process Control Facilities
- Internet Housing Sites
- Semiconductor Manufacturing
- Banks and Financial Markets
- Power Generation Plants
- Hospital and Testing Laboratories
- Emergency Response Center

FEATURES AND BENEFITS

- 12 year design life @ 25°C
- Eurobat classification: Long life
- Absorbent Glass Mat (AGM) technology for efficient gas recombination of up to 99% and freedom from electrolyte maintenance.
- Patented Long Life Alloy having the lowest calcium levels in the industry - minimizing grid growth, reducing gassing, and extending battery life
- Patented UL Recognized Flame-arresting vents in each cell for safety and long life.
- Designed with the same recombination, thermal runaway prevention, gassing and flame retardant characteristics of the Bellcore 4228 compliant Dynasty Telecom products.
- Flame retardant durable polypropylene case and cover compliant with UL 1778 and UL94-V2
- Proprietary Fixed Orifice Plate Pasting technology applying active materials on both sides of the grid for consistent cell-to-cell performance, higher capacity and uniform grid protection.
- Thermally welded case-to-cover bond to eliminate leakage
- Can be operated in upright, side or end mounting orientation.
- Not restricted for air transport -Complies with IATA/ICAO Special Provisions 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.

Specifications

Model	V	Watts/Cell @ 15min	Dimensions mm (inch)		(L*W*H*total high)		Weight/ Kg	Terminal
UPS 12-100 MRX	12	100	197(7.76)	132(5.19)	166(6.52)	173(6.80)	10.7	#10-32 UNF
UPS 12-130 MRX	12	130	197(7.76)	132(5.19)	166(6.52)	173(6.80)	11.5	#10-32 UNF
UPS 12-150 MRX	12	150	197(7.76)	132(5.19)	166(6.52)	173(6.80)	12.4	#10-32 UNF
UPS 12-200 MRX	12	200	229(9.0)	139(5.48)	200(7.89)	205(8.07)	17.7	#10-32 UNF
UPS 12-220 MRX	12	220	229(9.0)	139(5.48)	200(7.89)	205(8.07)	19	#10-32 UNF
UPS 12-280R MRX	12	280	261(10.27)	174(6.83)	200(7.89)	204(8.01)	25.7	1/4-20 UNC
UPS 12-320R MRX	12	320	261(10.27)	174(6.83)	200(7.89)	204(8.01)	27	1/4-20 UNC
UPS 12-370R MRX	12	370	306(12.04)	174(6.83)	202(7.94)	205(8.05)	31.5	1/4-20 UNC
UPS 12-400 MRX	12	400	341(13.42)	173(6.80)	213(8.40)	216(8.52)	35.3	1/4-20 UNC
UPS 12-440 MRX	12	440	341(13.42)	173(6.80)	213(8.40)	216(8.52)	36	1/4-20 UNC
UPS 12-475 MRX	12	475	341(13.42)	173(6.80)	213(8.40)	216(8.52)	38	1/4-20 UNC
UPS 12-490 MRX	12	490	345(13.57)	173(6.80)	275(10.81)	278(10.93)	46.6	1/4-20 UNC
UPS 12-520 MRX	12	520	345(13.57)	173(6.80)	275(10.81)	278(10.93)	47.2	1/4-20 UNC
UPS 12-550 MRX	12	550	345(13.57)	173(6.80)	275(10.81)	278(10.93)	48.6	1/4-20 UNC
UPS 12-600 MRX	12	600	345(13.57)	173(6.80)	275(10.81)	278(10.93)	49.4	1/4-20 UNC
UPS 12-630 MRX	12	630	345(13.57)	173(6.80)	275(10.81)	278(10.93)	TBD	1/4-20 UNC
UPS 12-775 MRX	12	775	522(20.55)	240(9.43)	219(8.62)	223(8.76)	TBD	M6

Specifications

Operating Temperature Range with temperature compensation	Discharge: -40° F (-40° C) to +160° F (71° C) Charge: -10° F (-23° C) to +140° F (60° C)
Nominal Operating Temperature Range	+74° F (-23° C) to +80° F (27° C)
Recommended Maximum Charging Current Limit	C/5 amperes @ 20hr rate
Float Charging Voltage	13.65 ± 0.15 VDC average per 12V unit. (6.75 to 6.90 per 6V unit)
Maximum AC Ripple (Charger)	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
Self Discharge	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 brochure 41-7272, Self-Discharge and Inventory Control for details.
Equalize charge and cycle service voltage	14.40 to 14.80 VDC average per 12V unit @ 77° F (25° C) (7.20 to 7.40 VDC per 6V unit.)
Terminal: Inserted	Threaded copper alloy insert terminal to accept 10-32 UNF bolt for all models below UPS12-220MRX, 1/4-20 UNC bolt for all models above UPS12-280R MRX.
Terminal Hardware Initial Torque: Inserted Terminal	30 in.-lbs. (3.4 N-m) for all models below UPS12-220MRX. 110 in.-lbs. (12.4 N-m) for all models above UPS120-280R MRX.

Battery Termination

<p>UPS12-100MRX, UPS12-130MRX, UPS12-150MRX</p>	<p>UPS12-200MRX, UPS12-220MRX</p>
<p>UPS12-280R MRX, UPS12-320R MRX</p>	<p>UPS12-370R MRX</p>
<p>UPS12-400MRX, UPS12-440MRX, UPS12-475MRX</p>	<p>UPS12-490MRX, UPS12-520MRX, UPS12-550MRX, UPS12-600MRX, UPS12-630MRX</p>

UPS 12-100 MRX

Constant Power Discharge Table - Watts Per Cell @ 25°C (77°F)

End Voltage Per Cell	Min					Hour											
	5	10	15	30	60	2	3	4	5	6	7	8	9	10	12	20	24
1.85	142.5	105.3	86.4	57.0	36.9	22.2	15.9	12.6	10.5	9.1	8.0	7.2	6.5	5.9	5.0	3.2	2.8
1.80	157.1	117.1	95.2	61.3	39.0	22.9	16.5	13.0	10.9	9.4	8.3	7.4	6.7	6.1	5.2	3.3	2.8
1.75	165.8	126.4	99.5	63.9	40.0	23.1	16.6	13.2	11.0	9.5	8.4	7.5	6.8	6.2	5.3	3.4	2.9
1.70	172.2	131.0	103.3	65.4	40.5	23.3	16.7	13.3	11.1	9.5	8.4	7.5	6.8	6.2	5.3	3.4	2.9
1.67	176.1	133.3	105.7	66.3	40.8	23.4	16.8	13.3	11.1	9.6	8.4	7.5	6.8	6.2	5.3	3.4	2.9
1.65	178.8	135.8	107.3	66.9	41.0	23.4	16.8	13.3	11.1	9.6	8.5	7.6	6.8	6.2	5.3	3.4	2.9

Constant Current Discharge Table - Amps @ 25°C (77°F)

End Voltage Per Cell	Min					Hour											
	5	10	15	30	60	2	3	4	5	6	7	8	9	10	12	20	24
1.85	80.0	61.1	48.5	31.4	20.1	11.4	8.2	6.4	5.4	4.6	4.0	3.6	3.2	2.9	2.5	1.6	1.4
1.80	88.6	68.0	53.7	33.6	21.0	11.9	8.5	6.7	5.6	4.8	4.2	3.7	3.4	3.1	2.6	1.7	1.4
1.75	93.3	71.3	56.3	34.9	21.5	12.1	8.6	6.8	5.7	4.9	4.3	3.8	3.4	3.1	2.6	1.7	1.4
1.70	96.4	73.5	58.0	35.4	21.6	12.2	8.7	6.8	5.7	4.9	4.3	3.8	3.4	3.1	2.7	1.7	1.4

UPS 12-130 MRX

Constant Power Discharge Table - Watts Per Cell @ 25°C (77°F)

End Voltage Per Cell	Min					Hour											
	5	10	15	30	60	2	3	4	5	6	7	8	9	10	12	20	24
1.85	185.5	140.7	112.4	69.8	42.8	25.1	17.8	14.0	11.6	10.0	8.7	7.7	6.9	6.3	5.3	3.3	2.8
1.80	204.3	155.4	123.8	74.8	45.2	26.3	18.6	14.5	12.1	10.4	9.0	8.0	7.2	6.5	5.5	3.4	2.9
1.75	214.0	165.7	129.7	78.2	46.5	26.6	18.9	14.8	12.3	10.5	9.1	8.1	7.2	6.6	5.6	3.5	2.9
1.70	220.8	172.1	133.8	79.8	47.3	26.8	19.1	14.9	12.3	10.6	9.2	8.1	7.3	6.6	5.6	3.5	2.9
1.67	225.0	176.1	135.0	80.7	47.6	26.9	19.1	14.9	12.4	10.6	9.2	8.1	7.3	6.6	5.6	3.5	3.0
1.65	227.8	178.7	137.0	81.4	47.9	27.0	19.2	15.0	12.4	10.6	9.2	8.1	7.3	6.6	5.6	3.5	3.0

Constant Current Discharge Table - Amps @ 25°C (77°F)

End Voltage Per Cell	Min					Hour											
	5	10	15	30	60	2	3	4	5	6	7	8	9	10	12	20	24
1.85	101.7	77.8	61.7	38.2	23.8	12.9	9.0	7.0	5.7	4.9	4.2	3.8	3.4	3.1	2.6	1.7	1.4
1.80	111.5	85.0	67.6	40.8	25.1	13.5	9.4	7.3	6.0	5.1	4.4	3.9	3.5	3.2	2.7	1.7	1.5
1.75	117.5	89.0	70.5	42.4	25.5	13.7	9.6	7.4	6.1	5.2	4.5	4.0	3.6	3.3	2.8	1.8	1.5
1.70	120.8	92.4	73.2	43.1	25.9	13.9	9.7	7.5	6.1	5.2	4.5	4.0	3.6	3.3	2.8	1.8	1.5

UPS 12-150 MRX

Constant Power Discharge Table - Watts Per Cell @ 25°C (77°F)

End Voltage Per Cell	Min					Hour											
	5	10	15	30	60	2	3	4	5	6	7	8	9	10	12	20	24
1.85	204.6	156.5	124.0	76.7	46.2	25.5	18.0	14.1	11.6	9.9	8.7	7.8	7.0	6.4	5.3	3.2	2.7
1.80	226.1	172.7	137.0	82.0	47.7	26.3	18.6	14.6	12.0	10.3	9.0	8.0	7.3	6.6	5.5	3.3	2.8
1.75	236.0	179.8	143.0	84.0	48.1	26.5	18.7	14.7	12.2	10.4	9.1	8.2	7.4	6.7	5.6	3.4	2.8
1.70	245.9	185.4	147.0	86.0	48.5	26.7	18.9	14.9	12.2	10.5	9.2	8.2	7.4	6.8	5.6	3.4	2.8
1.67	249.2	189.2	150.0	86.5	48.7	26.8	18.9	14.9	12.3	10.5	9.2	8.2	7.5	6.8	5.7	3.4	2.8
1.65	250.8	192.2	152.0	87.0	48.9	26.9	19.0	15.0	12.3	10.6	9.3	8.3	7.5	6.8	5.7	3.4	2.8

Constant Current Discharge Table - Amps @ 25°C (77°F)

End Voltage Per Cell	Min					Hour											
	5	10	15	30	60	2	3	4	5	6	7	8	9	10	12	20	24
1.85	118.6	90.9	71.8	42.6	25.2	13.5	9.4	7.3	5.9	5.0	4.4	3.9	3.5	3.2	2.7	1.7	1.5
1.80	128.4	98.5	77.8	45.3	26.4	14.2	9.8	7.6	6.2	5.2	4.6	4.0	3.6	3.3	2.8	1.8	1.5
1.75	134.1	102.7	80.0	46.7	26.8	14.3	9.9	7.6	6.2	5.3	4.6	4.1	3.7	3.4	2.8	1.8	1.5
1.70	137.4	105.4	82.0	47.6	27.1	14.5	10.0	7.7	6.3	5.3	4.6	4.1	3.7	3.4	2.9	1.8	1.5

UPS 12-200 MRX

Constant Power Discharge Table - Watts Per Cell @ 25°C (77°F)

End Voltage Per Cell	Min					Hour											
	5	10	15	30	60	2	3	4	5	6	7	8	9	10	12	20	24
1.85	279.3	209.2	169.2	107.1	66.8	37.7	27.0	21.3	17.7	15.3	13.3	11.8	10.7	9.7	8.2	5.2	4.5
1.80	306.3	230.1	185.6	114.2	70.0	39.3	28.1	22.1	18.3	16.0	13.9	12.3	11.0	10.0	8.5	5.3	4.5
1.75	323.5	242.1	194.0	118.4	70.8	40.0	28.5	22.4	18.6	16.2	14.1	12.5	11.2	10.2	8.6	5.4	4.6
1.70	332.9	249.2	198.0	120.2	71.3	39.8	28.5	22.6	18.8	16.3	14.1	12.5	11.2	10.2	8.7	5.4	4.6
1.67	338.7	253.6	200.0	121.1	71.5	40.1	28.7	22.7	18.9	16.3	14.2	12.6	11.3	10.2	8.7	5.5	4.6
1.65	342.1	256.5	202.0	122.0	71.7	40.2	28.8	22.7	19.0	16.3	14.2	12.6	11.3	10.3	8.7	5.5	4.7

Constant Current Discharge Table - Amps @ 25°C (77°F)

End Voltage Per Cell	Min					Hour											
	5	10	15	30	60	2	3	4	5	6	7	8	9	10	12	20	24
1.85	151.6	115.6	91.9	57.2	35.7	19.5	13.7	10.7	8.8	7.5	6.5	5.8	5.3	4.8	4.1	2.6	2.2
1.80	165.4	126.6	100.3	60.8	37.5	20.5	14.3	11.1	9.2	7.8	6.8	6.1	5.5	5.0	4.3	2.7	2.3
1.75	171.1	130.3	103.7	62.6	37.9	20.9	14.6	11.4	9.3	8.0	7.0	6.2	5.6	5.1	4.3	2.8	2.4
1.70	175.1	133.3	106.1	63.4	38.3	21.1	14.8	11.5	9.4	8.0	7.0	6.2	5.6	5.1	4.4	2.8	2.4

UPS 12-220 MRX

Constant Power Discharge Table - Watts Per Cell @ 25°C (77°F)

End Voltage Per Cell	Min					Hour											
	5	10	15	30	60	2	3	4	5	6	7	8	9	10	12	20	24
1.85	305.1	229.7	184.9	119.0	75.0	42.9	29.7	22.8	18.6	15.8	13.7	12.1	10.9	9.9	8.4	5.3	4.5
1.80	336.9	255.6	202.2	126.3	78.2	44.5	30.7	23.6	19.3	16.3	14.2	12.5	11.3	10.2	8.7	5.4	4.6
1.75	355.0	267.5	211.0	129.9	78.7	45.5	31.4	24.1	19.7	16.6	14.5	12.8	11.5	10.4	8.8	5.5	4.7
1.70	366.6	273.8	217.0	131.5	79.4	45.7	31.5	24.2	19.7	16.7	14.5	12.8	11.5	10.5	8.9	5.5	4.7
1.67	371.6	277.6	220.0	132.4	79.8	45.8	31.6	24.3	19.8	16.7	14.5	12.9	11.5	10.5	8.9	5.6	4.7
1.65	375.0	280.2	222.0	133.0	80.0	46.0	31.7	24.3	19.8	16.8	14.6	12.9	11.6	10.5	8.9	5.6	4.7

Constant Current Discharge Table - Amps @ 25°C (77°F)

End Voltage Per Cell	Min					Hour											
	5	10	15	30	60	2	3	4	5	6	7	8	9	10	12	20	24
1.85	176.4	130.9	106.9	66.9	38.6	20.8	14.5	11.2	9.1	7.7	6.7	6.0	5.4	4.9	4.1	2.6	2.2
1.80	189.7	139.7	115.0	71.0	39.8	21.4	14.9	11.5	9.5	8.0	7.0	6.2	5.6	5.1	4.3	2.7	2.3
1.75	197.4	145.0	119.6	72.4	40.7	21.9	15.2	11.8	9.6	8.2	7.1	6.3	5.7	5.2	4.4	2.8	2.4
1.70	201.9	148.9	121.2	73.1	41.1	22.1	15.4	11.9	9.7	8.2	7.2	6.4	5.7	5.2	4.4	2.8	2.4

UPS 12-280R MRX

Constant Power Discharge Table - Watts Per Cell @ 25°C (77°F)

End Voltage Per Cell	Min					Hour											
	5	10	15	30	60	2	3	4	5	6	7	8	9	10	12	20	24
1.85	364.2	280.3	229.9	152.2	98.9	59.7	42.2	33.0	27.3	23.3	20.5	18.2	16.4	14.9	12.6	7.9	6.6
1.80	413.6	312.0	255.8	163.9	104.1	61.9	43.7	34.1	28.2	24.1	21.2	18.9	16.9	15.4	13.0	8.1	6.9
1.75	452.8	333.8	272.0	171.7	107.1	63.0	44.4	34.7	28.6	24.5	21.4	19.2	17.2	15.6	13.2	8.2	7.0
1.70	473.0	345.1	279.0	175.3	108.5	63.4	44.7	34.9	28.8	24.6	21.6	19.3	17.3	15.7	13.3	8.3	7.0
1.67	481.6	351.4	284.0	178.0	109.4	63.7	44.9	35.0	28.9	24.7	21.7	19.4	17.4	15.7	13.3	8.3	7.0
1.65	494.6	358.2	288.0	179.8	110.4	64.0	45.1	35.3	29.1	24.9	21.8	19.4	17.4	15.8	13.3	8.3	7.0

Constant Current Discharge Table - Amps @ 25°C (77°F)

End Voltage Per Cell	Min					Hour											
	5	10	15	30	60	2	3	4	5	6	7	8	9	10	12	20	24
1.85	226.6	171.2	137.3	88.8	54.3	29.6	20.7	16.1	13.2	11.3	9.8	8.8	7.9	7.2	6.1	3.9	3.3
1.80	247.9	186.0	150.3	93.9	57.0	31.1	21.8	16.9	13.9	11.8	10.3	9.2	8.3	7.5	6.4	4.1	3.5
1.75	258.9	194.4	156.9	96.4	57.8	31.7	22.2	17.2	14.1	12.0	10.5	9.3	8.4	7.7	6.5	4.2	3.5
1.70	269.0	202.8	163.0	98.5	58.2	32.0	22.4	17.3	14.2	12.1	10.6	9.4	8.5	7.7	6.6	4.2	3.6

UPS 12-320R MRX

Constant Power Discharge Table - Watts Per Cell @ 25°C (77°F)

End Voltage Per Cell	Min					Hour											
	5	10	15	30	60	2	3	4	5	6	7	8	9	10	12	20	24
1.85	458.4	346.7	277.8	176.9	110.7	64.2	44.5	34.4	28.1	23.9	20.8	18.4	16.6	15.1	12.8	8.1	6.8
1.80	502.6	378.1	304.6	188.6	115.9	66.7	46.2	35.6	29.1	24.7	21.5	19.0	17.1	15.5	13.2	8.3	7.0
1.75	526.2	395.1	314.2	194.0	118.5	67.9	47.0	36.2	29.5	25.0	21.8	19.3	17.3	15.8	13.4	8.4	7.1
1.70	535.3	406.2	321.4	198.6	118.8	68.3	47.3	36.4	29.7	25.2	21.9	19.4	17.4	15.8	13.4	8.4	7.2
1.67	544.3	413.0	326.3	200.4	119.0	68.6	47.4	36.5	29.8	25.3	22.0	19.5	17.5	15.9	13.5	8.5	7.2
1.65	547.5	417.7	329.3	202.7	119.4	68.8	47.6	36.6	29.9	25.3	22.0	19.5	17.5	15.9	13.5	8.5	7.2

Constant Current Discharge Table - Amps @ 25°C (77°F)

End Voltage Per Cell	Min					Hour											
	5	10	15	30	60	2	3	4	5	6	7	8	9	10	12	20	24
1.85	248.3	185.0	150.5	95.9	58.0	31.8	22.4	17.5	14.5	12.3	10.6	9.4	8.4	7.6	6.5	4.0	3.4
1.80	267.8	196.8	162.3	101.8	60.7	33.1	23.3	18.2	15.1	12.8	11.1	9.8	8.7	7.9	6.7	4.1	3.5
1.75	277.5	203.2	168.2	105.4	62.0	33.8	23.7	18.5	15.4	13.0	11.2	9.9	8.9	8.0	6.8	4.2	3.5
1.70	282.8	207.6	171.4	106.9	62.5	34.0	23.8	18.6	15.4	13.0	11.3	10.0	8.9	8.1	6.8	4.2	3.6

UPS 12-370R MRX

Constant Power Discharge Table - Watts Per Cell @ 25°C (77°F)

End Voltage Per Cell	Min					Hour											
	5	10	15	30	60	2	3	4	5	6	7	8	9	10	12	20	24
1.85	523.1	391.5	310.7	206.2	131.6	73.2	52.0	40.8	33.8	29.1	25.4	22.5	20.2	18.4	15.5	9.8	8.3
1.80	572.1	435.3	339.8	219.2	137.7	76.1	53.8	42.8	34.6	29.7	25.9	23.0	20.7	18.8	16.0	10.1	8.6
1.75	605.2	461.0	359.5	227.4	140.1	77.1	54.4	42.6	34.9	29.9	26.1	23.2	20.9	19.0	16.2	10.4	8.8
1.70	622.7	474.8	369.9	231.5	142.5	78.0	54.9	42.8	35.2	30.1	26.3	23.4	21.1	19.1	16.3	10.4	8.9
1.67	633.5	484.7	376.3	234.0	143.7	78.4	55.2	43.0	35.4	30.2	26.4	23.5	21.1	19.2	16.4	10.4	8.9
1.65	640.8	491.5	380.6	235.7	144.9	78.8	55.3	43.1	35.5	30.3	26.5	23.5	21.2	19.2	16.4	10.5	8.9

Constant Current Discharge Table - Amps @ 25°C (77°F)

End Voltage Per Cell	Min					Hour											
	5	10	15	30	60	2	3	4	5	6	7	8	9	10	12	20	24
1.85	291.3	223.0	178.0	114.5	67.4	36.7	25.7	20.0	16.4	14.0	12.2	10.9	9.8	8.9	7.6	4.9	4.1
1.80	316.8	241.4	192.0	122.5	69.3	37.8	26.5	20.6	17.0	14.5	12.6	11.3	10.2	9.3	7.9	5.1	4.3
1.75	330.3	251.3	200.2	125.5	71.0	38.6	27.1	21.0	17.3	14.7	12.9	11.4	10.3	9.4	8.0	5.1	4.4
1.70	338.8	257.0	205.3	128.2	71.9	39.0	27.3	21.2	17.4	14.8	13.0	11.5	10.4	9.5	8.1	5.1	4.4

UPS 12- 400 MRX

Constant Power Discharge Table - Watts Per Cell @ 25°C (77°F)

End Voltage Per Cell	Min					Hour											
	5	10	15	30	60	2	3	4	5	6	7	8	9	10	12	20	24
1.85	547.6	411.9	338.7	226.0	146.5	81.9	58.3	45.8	38.0	32.8	28.5	25.2	22.6	20.5	17.3	10.8	9.1
1.80	614.9	461.7	372.7	241.0	153.9	85.6	60.7	47.6	39.4	34.0	29.6	26.2	23.5	21.3	17.9	11.2	9.4
1.75	640.3	483.1	386.1	252.4	157.2	87.2	61.8	48.4	40.0	34.4	30.0	26.6	23.8	21.6	18.2	11.3	9.5
1.70	664.0	502.9	399.8	257.9	158.5	87.9	62.2	48.7	40.3	34.5	30.3	27.0	24.1	21.8	18.4	11.3	9.5
1.67	674.0	516.7	407.7	261.4	159.3	88.3	62.5	48.9	40.5	34.7	30.4	27.1	24.2	21.9	18.4	11.4	9.6
1.65	679.3	522.4	411.6	263.7	159.8	88.6	62.7	49.1	40.6	34.7	30.5	27.1	24.3	22.0	18.5	11.4	9.6

Constant Current Discharge Table - Amps @ 25°C (77°F)

End Voltage Per Cell	Min					Hour											
	5	10	15	30	60	2	3	4	5	6	7	8	9	10	12	20	24
1.85	295.7	236.8	189.0	122.2	74.8	40.4	28.2	21.8	17.9	15.2	13.3	11.8	10.6	9.7	8.2	5.2	4.4
1.80	346.5	262.6	210.0	131.0	78.7	42.3	29.4	22.7	18.6	15.8	13.8	12.2	11.0	10.0	8.5	5.4	4.6
1.75	363.0	277.5	220.0	134.8	79.7	42.9	29.8	23.2	19.0	16.1	14.0	12.5	11.2	10.2	8.6	5.5	4.6
1.70	376.2	286.9	228.0	139.0	79.9	43.1	30.0	23.2	19.1	16.2	14.1	12.5	11.3	10.3	8.8	5.6	4.7

UPS 12- 440 MRX

Constant Power Discharge Table - Watts Per Cell @ 25°C (77°F)

End Voltage Per Cell	Min					Hour											
	5	10	15	30	60	2	3	4	5	6	7	8	9	10	12	20	24
1.85	570.9	437.8	346.0	230.1	149.9	87.2	61.4	47.8	39.4	33.7	29.6	26.4	23.7	21.5	18.1	11.3	9.5
1.80	635.6	485.2	385.2	246.5	157.2	90.2	63.6	49.6	40.8	34.9	30.5	27.1	24.3	22.1	18.7	11.7	9.9
1.75	680.3	521.3	412.3	257.5	160.2	90.5	64.1	50.2	41.5	35.5	31.2	27.6	24.7	22.4	19.0	11.8	10.0
1.70	704.4	538.4	426.9	263.0	163.2	91.2	64.5	50.5	41.7	35.7	31.4	27.7	24.9	22.6	19.1	11.9	10.0
1.67	719.2	552.3	435.9	266.4	164.7	91.6	64.8	50.7	41.9	35.8	31.5	27.8	25.0	22.6	19.1	11.9	10.1
1.65	729.3	561.8	442.0	268.7	166.0	91.9	65.0	50.8	42.0	35.9	31.5	27.9	25.0	22.7	19.2	11.9	10.1

Constant Current Discharge Table - Amps @ 25°C (77°F)

End Voltage Per Cell	Min					Hour											
	5	10	15	30	60	2	3	4	5	6	7	8	9	10	12	20	24
1.85	296.4	251.3	203.7	131.2	78.0	44.4	31.0	24.0	19.6	16.7	14.5	12.9	11.6	10.5	8.9	5.7	4.8
1.80	364.3	277.4	222.3	140.2	81.0	45.8	31.9	24.8	20.3	17.3	15.1	13.4	12.1	11.0	9.3	5.9	5.1
1.75	407.4	297.0	233.0	145.0	83.0	46.6	32.7	25.3	20.7	17.6	15.4	13.6	12.3	11.2	9.5	6.0	5.1
1.70	442.6	310.2	239.4	148.8	84.7	47.0	32.9	25.5	20.8	17.7	15.5	13.7	12.4	11.2	9.6	6.1	5.1

UPS 12- 475 MRX

Constant Power Discharge Table - Watts Per Cell @ 25°C (77°F)

End Voltage Per Cell	Min					Hour											
	5	10	15	30	60	2	3	4	5	6	7	8	9	10	12	20	24
1.85	552.4	472.4	378.0	245.0	157.3	85.1	59.5	46.1	37.8	32.2	28.1	25.0	22.5	20.5	17.4	11.1	9.4
1.80	664.2	527.6	415.0	262.9	165.6	89.2	62.1	48.0	39.3	33.4	29.1	25.9	23.3	21.2	18.0	11.4	9.7
1.75	727.7	575.5	441.0	274.7	169.3	90.9	63.2	48.9	40.0	34.0	29.6	26.2	23.6	21.5	18.2	11.5	9.8
1.70	759.0	604.1	460.0	281.5	171.2	91.8	63.8	49.2	40.3	34.2	29.8	26.4	23.8	21.6	18.3	11.6	9.8
1.67	783.8	621.9	475.0	285.8	172.3	92.3	64.1	49.5	40.5	34.3	29.9	26.5	23.8	21.7	18.4	11.6	9.9
1.65	790.4	634.0	479.0	288.7	173.2	92.7	64.3	49.6	40.6	34.4	30.0	26.6	23.9	21.7	18.4	11.6	9.9

Constant Current Discharge Table - Amps @ 25°C (77°F)

End Voltage Per Cell	Min					Hour											
	5	10	15	30	60	2	3	4	5	6	7	8	9	10	12	20	24
1.85	358.9	276.7	217.5	132.9	81.5	43.6	30.3	23.3	19.1	16.2	14.1	12.5	11.2	10.2	8.7	5.5	4.6
1.80	397.7	305.2	241.0	142.7	85.7	45.8	31.7	24.4	19.9	16.9	14.7	13.0	11.7	10.6	9.0	5.7	4.8
1.75	424.5	325.8	257.3	148.8	86.6	46.9	32.4	24.9	20.3	17.2	15.0	13.2	11.9	10.8	9.1	5.7	4.9
1.70	438.3	333.7	263.8	151.8	87.2	47.3	32.7	25.1	20.5	17.3	15.1	13.3	12.0	10.9	9.2	5.8	4.9

UPS 12- 490 MRX

Constant Power Discharge Table - Watts Per Cell @ 25°C (77°F)

End Voltage Per Cell	Min					Hour											
	5	10	15	30	60	2	3	4	5	6	7	8	9	10	12	20	24
1.85	545.6	447.3	372.8	263.8	176.0	104.0	73.8	57.9	48.1	41.1	36.0	32.1	29.0	26.5	22.7	14.6	12.5
1.80	641.0	520.5	421.8	286.1	186.0	110.0	77.8	60.7	50.0	42.7	37.4	33.3	30.1	27.5	23.5	15.1	12.9
1.75	695.0	560.6	449.5	298.0	190.0	110.7	78.2	61.7	50.9	43.4	38.0	33.8	30.6	27.9	23.8	15.3	13.1
1.70	752.8	602.9	478.9	310.8	194.0	111.2	78.6	61.4	50.8	43.4	38.1	34.0	30.7	28.1	24.0	15.5	13.3
1.67	794.3	624.0	494.9	317.0	195.0	111.6	78.9	61.7	50.9	43.6	38.2	34.1	30.8	28.1	24.1	15.5	13.3
1.65	825.2	643.2	505.8	321.3	196.0	111.9	79.1	61.8	51.1	43.7	38.3	34.1	30.9	28.2	24.1	15.6	13.3

Constant Current Discharge Table - Amps @ 25°C (77°F)

End Voltage Per Cell	Min					Hour											
	5	10	15	30	60	2	3	4	5	6	7	8	9	10	12	20	24
1.85	295.0	269.1	220.2	147.6	91.5	51.6	36.9	29.1	24.2	21.0	18.4	16.3	14.6	13.3	11.3	7.1	6.0
1.80	383.7	312.2	249.6	160.0	97.2	54.4	38.7	30.4	25.2	21.8	19.1	16.9	15.2	13.8	11.7	7.3	6.2
1.75	422.3	334.0	266.5	166.3	98.5	55.0	39.4	31.2	25.8	22.3	19.6	17.3	15.5	14.1	11.9	7.5	6.3
1.70	465.5	355.2	281.1	171.1	99.1	55.6	39.9	31.6	26.3	22.7	19.8	17.5	15.7	14.2	12.0	7.5	6.3

UPS 12- 520 MRX

Constant Power Discharge Table - Watts Per Cell @ 25°C (77°F)

End Voltage Per Cell	Min					Hour											
	5	10	15	30	60	2	3	4	5	6	7	8	9	10	12	20	24
1.85	577.3	483.2	397.4	282.0	183.0	104.7	74.4	58.3	48.2	41.2	36.1	32.0	28.8	26.3	22.3	14.2	12.1
1.80	700.1	566.0	456.3	309.5	199.2	110.5	78.3	61.5	51.4	43.5	37.8	33.5	30.1	27.3	23.1	14.5	12.3
1.75	783.7	611.0	487.4	324.0	204.8	113.1	79.9	62.5	52.0	44.1	38.4	34.0	30.6	27.8	23.6	14.9	12.6
1.70	843.3	647.7	510.5	332.8	207.1	114.2	80.6	63.3	52.4	44.4	38.6	34.2	30.8	28.0	23.7	15.0	12.7
1.67	884.2	665.5	525.0	338.2	208.5	114.8	81.0	63.6	52.6	44.6	38.8	34.4	30.9	28.1	23.8	15.0	12.7
1.65	913.6	677.7	534.8	342.0	209.9	115.2	81.3	63.9	52.8	44.7	38.9	34.5	31.0	28.2	23.9	15.0	12.7

Constant Current Discharge Table - Amps @ 25°C (77°F)

End Voltage Per Cell	Min					Hour											
	5	10	15	30	60	2	3	4	5	6	7	8	9	10	12	20	24
1.85	336.4	290.7	233.8	157.5	96.3	54.2	38.1	29.6	24.4	20.8	18.2	16.2	14.6	13.3	11.4	7.3	6.2
1.80	412.0	326.0	264.2	171.6	101.8	57.1	40.0	31.0	25.5	21.7	19.0	16.9	15.2	13.9	11.8	7.5	6.4
1.75	463.0	351.2	282.3	178.1	104.7	58.5	40.9	31.7	26.1	22.2	19.4	17.2	15.5	14.1	12.0	7.7	6.5
1.70	504.3	375.6	299.4	183.9	106.1	59.3	41.4	32.0	26.3	22.4	19.5	17.3	15.6	14.2	12.1	7.7	6.5

UPS 12- 550 MRX

Constant Power Discharge Table - Watts Per Cell @ 25°C (77°F)

End Voltage Per Cell	Min					Hour											
	5	10	15	30	60	2	3	4	5	6	7	8	9	10	12	20	24
1.85	583.7	493.2	408.3	282.8	190.4	106.6	76.0	59.7	49.5	42.5	37.3	33.4	30.0	27.2	23.1	14.5	12.3
1.80	709.7	579.3	467.7	307.9	200.8	111.4	79.0	61.9	51.2	43.8	38.5	34.6	31.2	28.4	24.0	15.0	12.7
1.75	795.0	635.6	508.7	324.2	206.3	114.0	80.6	63.0	52.1	44.5	39.0	35.2	31.5	28.7	24.2	15.2	12.9
1.70	854.9	675.4	534.1	333.6	208.5	115.0	81.2	63.5	52.4	44.8	39.3	35.3	31.7	28.8	24.4	15.3	12.9
1.67	896.9	704.1	550.1	346.2	209.7	115.6	81.6	63.7	52.6	45.0	39.5	35.4	31.8	28.8	24.4	15.3	13.0
1.65	927.7	715.2	561.1	350.3	210.2	116.0	81.8	63.9	52.7	45.1	39.7	35.5	31.9	28.9	24.4	15.3	13.0

Constant Current Discharge Table - Amps @ 25°C (77°F)

End Voltage Per Cell	Min					Hour											
	5	10	15	30	60	2	3	4	5	6	7	8	9	10	12	20	24
1.85	350.2	294.6	246.6	162.4	97.3	57.0	39.7	30.8	25.2	21.4	18.7	16.6	14.9	13.6	11.6	7.3	6.2
1.80	423.8	342.0	279.0	176.5	103.2	59.9	41.6	32.2	26.3	22.4	19.5	17.3	15.5	14.1	12.0	7.6	6.4
1.75	467.3	363.2	299.0	182.9	106.3	61.4	42.6	32.8	26.8	22.8	19.8	17.6	15.8	14.4	12.2	7.7	6.5
1.70	514.3	382.6	310.0	186.9	108.0	62.0	43.0	33.1	27.1	23.0	20.0	17.7	15.9	14.5	12.3	7.7	6.6

UPS 12- 600 MRX

Constant Power Discharge Table - Watts Per Cell @ 25°C (77°F)

End Voltage Per Cell	Min					Hour											
	5	10	15	30	60	2	3	4	5	6	7	8	9	10	12	20	24
1.85	698.8	568.5	463.7	305.3	195.5	112.4	78.0	60.2	49.2	41.7	36.3	32.2	29.0	26.3	22.3	14.1	12.0
1.80	790.5	637.7	518.8	329.9	209.0	115.6	80.5	62.2	51.0	43.3	37.7	33.5	30.1	27.4	23.3	14.7	12.5
1.75	867.7	681.6	550.8	344.6	212.0	118.2	82.1	63.4	51.9	44.0	38.3	34.0	30.6	27.8	23.6	14.9	12.7
1.70	927.7	724.9	583.2	355.1	215.0	119.2	82.8	63.9	52.3	44.4	38.6	34.3	30.8	28.0	23.8	15.0	12.7
1.67	968.8	745.1	600.8	360.8	216.5	119.8	83.2	64.2	52.5	44.6	38.8	34.4	30.9	28.1	23.9	15.1	12.8
1.65	998.6	755.6	608.2	364.7	218.0	120.2	83.4	64.4	52.7	44.7	38.9	34.5	31.0	28.2	23.9	15.1	12.8

Constant Current Discharge Table - Amps @ 25°C (77°F)

End Voltage Per Cell	Min					Hour											
	5	10	15	30	60	2	3	4	5	6	7	8	9	10	12	20	24
1.85	360.6	304.3	253.0	166.0	98.0	55.1	38.8	30.3	25.1	21.6	18.7	16.5	14.7	13.3	11.2	6.9	5.8
1.80	435.7	351.4	290.0	179.0	103.8	58.0	40.7	31.9	26.3	22.4	19.4	17.1	15.3	13.9	11.7	7.2	6.1
1.75	484.8	370.6	302.0	185.0	106.4	59.0	41.7	32.5	26.7	22.8	19.7	17.4	15.6	14.1	11.9	7.4	6.2
1.70	524.3	389.8	314.0	189.0	108.4	59.6	42.0	32.7	27.1	23.0	19.9	17.6	15.7	14.2	12.0	7.4	6.2

* All data shall be changed without prior notice, C&D reserves the right to explain and update the information contained herein.