

*Power You Can
Depend On*

C&D TECHNOLOGIES
Power Solutions

MRX Series

Valve Regulated Lead Acid

— Optimized UPS Configuration



High Rate Max^{XT}



WWW.CDTECHNO.COM.CN
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MRX Series

**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

- Design life : 8 years@25°C (<100WPC)
12 years@25°C (≥100WPC)
- Eurobat Classification : Long Life
- Absorbent Glass Mat (AGM) technology for efficient gas recombination of up to 99% and freedom from electrolyte maintenance
- Long Life Alloy having very low calcium levels in the industry -minimizing grid growth, reducing gassing, and extending battery life
- 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 polypropylene case and cover compliant with UL94 V-0(≥100 MRX)
- 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
- 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 Tottle 49 parts 171-189
- Not restricted for water transport-Classified as non-hazardous material per IMDG Amendment 27

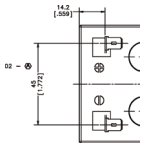
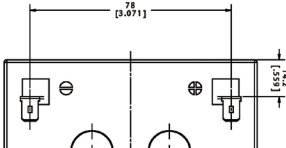
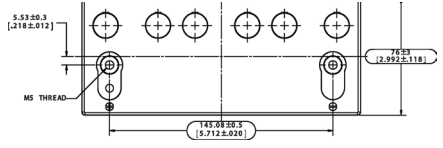
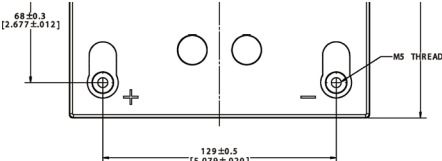
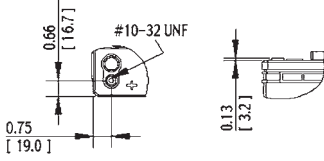
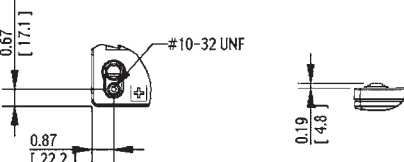
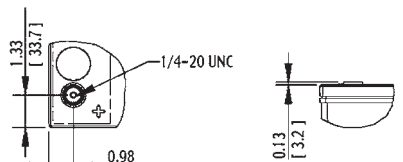
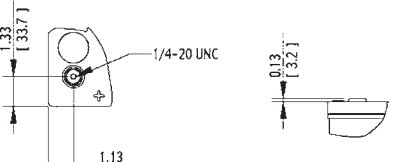
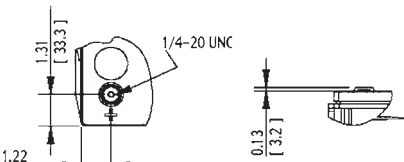
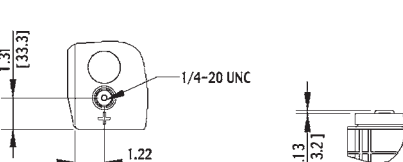
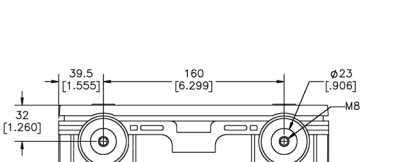
Specifications

Model	V	Watts/Cell @ 15min	Dimensions (mm)				Weight / Kg	Terminal(Bolt)
			L	W	H	TH		
UPS 12-28 MRX	12	28	151	65	94	100	2.3	Faston Tab 250
UPS 12-34 MRX	12	34	151	65	94	100	2.5	Faston Tab 250
UPS 12-43 MRX	12	43	151	98	94	100	3.6	Faston Tab 250
UPS 12-72 MRX	12	72	181	76	163	166	6.0	Insert (M5)
UPS 12-100S MRX	12	100	166	175	122	125	8.9	Insert (M5)
UPS 12-100 MRX	12	100	197	132	166	173	10.7	Insert (#10-32 UNF)
UPS 12-150 MRX	12	150	197	132	166	173	12.4	Insert (#10-32 UNF)
UPS 12-220 MRX	12	220	229	139	200	205	19.0	Insert (#10-32 UNF)
UPS 12-320R MRX	12	320	273	173	201	204	27.0	Insert (1/4-20 UNC)
UPS 12-370R MRX	12	370	319	173	203	206	31.5	Insert (1/4-20 UNC)
UPS 12-400 MRX	12	400	341	173	213	216	35.3	Insert (1/4-20 UNC)
UPS 12-475 MRX	12	475	341	173	215	218	38.0	Insert (1/4-20 UNC)
UPS 12-490 MRX	12	490	345	173	275	278	46.6	Insert (1/4-20 UNC)
UPS 12-550 MRX	12	550	345	173	275	278	48.6	Insert (1/4-20 UNC)
UPS 12-630 MRX	12	630	345	173	275	278	52.9	Insert (1/4-20 UNC)
UPS 12-700 MRX	12	700	525	239	227	227	66.0	Insert (M8)
UPS 12-720 MRX	12	720	525	239	227	227	67.3	Insert (M8)
UPS 12-800 MRX	12	800	525	239	227	227	71.0	Insert (M8)
UPS 12-830 MRX	12	830	525	239	227	227	72.0	Insert (M8)

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±0.15VDC per unit at 25°C (Recommendation:13.65V per 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 A RMS
Self Discharge	Battery can be stored up to 4 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)
Accessories (Optional)	Inter unit connectors, racks and cabinet systems are available.

Battery Termination

 UPS 12-28 MRX, UPS 12-34 MRX	 UPS 12-43 MRX	 UPS 12-72 MRX
 UPS 12-100S MRX	 UPS12-100MRX, UPS12-150MRX	
 UPS12-220MRX	 UPS12-320R MRX	 UPS12-370R MRX
 UPS12-400MRX, UPS12-475MRX	 UPS12-490MRX, UPS12-550MRX, UPS12-630MRX	 UPS 12-700 MRX, UPS 12-720 MRX, UPS 12-800 MRX, UPS 12-830 MRX

MRX Series

UPS 12-28 MRX

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

EPV	5 min	10 min	15 min	30 min	60 min	90 min	2 hr	3 hr	5 hr	8 hr	10 hr	20 hr
1.85V	43.7	32.0	25.0	15.7	9.6	7.0	5.60	3.99	2.58	1.77	1.47	0.79
1.80V	46.7	33.7	26.1	16.0	9.8	7.1	5.68	4.05	2.61	1.79	1.49	0.80
1.75V	49.5	35.1	26.9	16.3	9.9	7.2	5.76	4.10	2.64	1.80	1.50	0.81
1.70V	52.4	36.5	27.5	16.6	10.0	7.3	5.84	4.14	2.67	1.82	1.51	0.83
1.67V	53.8	37.2	28.0	16.8	10.1	7.3	5.87	4.16	2.69	1.84	1.53	0.83
1.60V	56.9	38.8	28.9	17.1	10.2	7.5	5.96	4.21	2.74	1.87	1.55	0.85

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

EPV	5 min	10 min	15 min	30 min	60 min	90 min	2 hr	3 hr	5 hr	8 hr	10 hr	20 hr
1.85V	23.3	16.5	13.0	8.0	4.9	3.5	2.7	1.9	1.2	0.82	0.67	0.38
1.80V	25.8	17.7	13.7	8.3	5.0	3.5	2.8	1.9	1.2	0.83	0.69	0.40
1.75V	28.1	18.6	14.3	8.6	5.0	3.6	2.8	1.9	1.2	0.84	0.70	0.40
1.70V	30.3	19.5	14.8	8.8	5.1	3.6	2.8	2.0	1.2	0.84	0.71	0.41
1.67V	31.4	19.9	15.1	8.9	5.1	3.7	2.9	2.0	1.2	0.85	0.72	0.42
1.60V	33.8	20.9	15.7	9.1	5.2	3.7	2.9	2.0	1.3	0.87	0.73	0.43

UPS 12-34 MRX

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

EPV	5 min	10 min	15 min	30 min	60 min	90 min	2 hr	3 hr	5 hr	8 hr	10 hr	20 hr
1.85V	54.1	39.2	30.8	17.9	10.8	7.8	6.05	4.23	2.66	1.79	1.45	0.77
1.80V	57.7	42.5	32.6	18.2	10.9	8.0	6.13	4.29	2.69	1.81	1.47	0.79
1.75V	61.3	44.4	33.6	18.6	11.1	8.1	6.22	4.34	2.72	1.82	1.48	0.80
1.70V	64.7	45.1	32.2	18.9	11.2	8.2	6.30	4.39	2.75	1.84	1.49	0.81
1.67V	66.4	45.8	34.2	19.1	11.3	8.2	6.34	4.41	2.77	1.85	1.52	0.82
1.60V	70.1	46.5	34.5	19.5	11.4	8.3	6.44	4.46	2.82	1.89	1.53	0.83

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

EPV	5 min	10 min	15 min	30 min	60 min	90 min	2 hr	3 hr	5 hr	8 hr	10 hr	20 hr
1.85V	27.4	19.5	15.3	9.1	5.5	3.9	2.9	2.0	1.2	0.82	0.67	0.37
1.80V	30.4	20.8	16.1	9.5	5.6	3.9	3.0	2.0	1.2	0.83	0.69	0.39
1.75V	33.1	21.9	16.9	9.8	5.6	4.0	3.0	2.0	1.2	0.84	0.70	0.39
1.70V	35.7	22.9	17.5	10.0	5.7	4.1	3.1	2.1	1.3	0.85	0.70	0.40
1.67V	37.0	23.5	17.8	10.1	5.8	4.1	3.1	2.1	1.3	0.86	0.71	0.41
1.60V	39.8	24.6	18.5	10.4	5.9	4.2	3.2	2.1	1.3	0.88	0.72	0.42

UPS 12-43 MRX

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

EPV	5 min	10 min	15 min	30 min	60 min	90 min	2 hr	3 hr	5 hr	8 hr	10 hr	20 hr
1.85V	61.0	46.3	36.5	23.8	15.1	10.9	8.69	5.98	3.85	2.56	2.10	1.19
1.80V	69.1	50.7	40.2	25.3	15.7	11.2	8.88	6.23	3.98	2.61	2.17	1.23
1.75V	76.4	53.9	42.3	25.8	15.9	11.5	9.07	6.36	4.03	2.68	2.21	1.25
1.70V	82.5	55.5	43.3	26.1	16.0	11.6	9.16	6.45	4.13	2.73	2.25	1.26
1.67V	85.1	56.5	43.8	26.3	16.1	11.6	9.19	6.50	4.17	2.74	2.26	1.26
1.60V	89.1	57.4	44.3	26.4	16.2	11.7	9.24	6.55	4.18	2.76	2.28	1.27

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

EPV	5 min	10 min	15 min	30 min	60 min	90 min	2 hr	3 hr	5 hr	8 hr	10 hr	20 hr
1.85V	33.9	25.1	19.6	12.2	7.4	5.4	4.3	3.0	2.0	1.31	1.08	0.57
1.80V	38.5	27.8	21.3	12.9	7.7	5.6	4.4	3.1	2.0	1.36	1.13	0.59
1.75V	42.9	29.8	22.4	13.3	8.0	5.7	4.5	3.2	2.1	1.39	1.14	0.60
1.70V	45.9	31.3	23.1	13.5	8.0	5.8	4.6	3.3	2.2	1.42	1.16	0.60
1.67V	47.8	31.7	23.4	13.6	8.1	5.8	4.6	3.3	2.2	1.43	1.17	0.60
1.60V	50.8	32.9	23.7	13.8	8.1	5.9	4.7	3.3	2.2	1.44	1.18	0.61

UPS 12-72 MRX

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

EPV	5 min	10 min	15 min	30 min	60 min	90 min	2 hr	3 hr	5 hr	8 hr	10 hr	20 hr
1.85V	91.4	73.2	61.9	43.5	27.1	19.9	16.08	11.45	7.35	4.68	3.72	1.73
1.80V	103.7	78.8	64.6	44.7	27.4	20.2	11.07	11.53	7.37	4.73	3.77	1.80
1.75V	116.0	84.5	67.7	45.8	27.6	20.4	16.33	11.64	7.40	4.78	3.84	1.87
1.70V	128.2	90.3	70.8	46.6	27.9	20.4	16.42	11.72	7.42	4.83	3.89	1.94
1.67V	135.4	93.2	72.5	47.1	28.1	20.6	16.45	11.74	7.44	4.85	3.91	1.97
1.60V	152.5	99.9	77.0	48.2	28.5	20.7	16.52	11.76	7.47	4.87	3.96	2.06

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

EPV	5 min	10 min	15 min	30 min	60 min	90 min	2 hr	3 hr	5 hr	8 hr	10 hr	20 hr
1.85V	49.4	38.4	31.9	21.8	13.5	10.0	8.0	5.7	3.7	2.33	1.85	0.87
1.80V	56.0	41.3	33.6	22.4	13.7	10.1	8.1	5.8	3.7	2.37	1.88	0.90
1.75V	62.7	44.3	35.1	22.9	13.8	10.1	8.1	5.8	3.7	2.39	1.91	0.94
1.70V	69.3	47.1	36.6	23.3	14.0	10.3	8.2	5.8	3.7	2.42	1.94	0.97
1.67V	73.2	48.8	37.5	23.5	14.1	10.3	8.2	5.9	3.7	2.42	1.95	0.98
1.60V	82.5	52.3	39.6	24.1	14.2	10.4	8.3	5.9	3.7	2.44	1.98	1.03

UPS 12-100S MRX

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

EPV	5 min	10 min	15 min	30 min	60 min	90 min	2 hr	3 hr	5 hr	8 hr	10 hr	20 hr
1.85V	150.8	111.1	90.2	61.1	37.7	27.4	21.80	15.93	10.18	6.52	5.25	2.56
1.80V	163.8	116.9	93.4	62.1	37.9	27.5	21.97	15.95	10.21	6.59	5.31	2.62
1.75V	175.6	122.0	96.1	63.0	38.0	27.7	22.13	15.97	10.26	6.66	5.39	2.70
1.70V	186.7	126.6	98.7	63.6	38.2	27.9	22.30	15.98	10.28	6.72	5.46	2.77
1.67V	193.6	129.5	100.0	64.1	38.4	28.0	22.46	16.00	10.30	6.75	5.49	2.80
1.60V	208.2	135.7	103.9	65.3	38.5	28.2	22.62	16.02	10.31	6.80	5.54	2.89

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

EPV	5 min	10 min	15 min	30 min	60 min	90 min	2 hr	3 hr	5 hr	8 hr	10 hr	20 hr
1.85V	75.4	55.6	45.0	30.0	18.8	13.6	10.8	8.0	5.1	3.26	2.62	1.27
1.80V	81.9	58.4	46.7	30.6	18.9	13.7	10.9	8.0	5.1	3.30	2.66	1.31
1.75V	88.2	61.0	48.2	31.1	19.0	13.8	11.0	8.0	5.1	3.32	2.70	1.35
1.70V	94.1	63.5	49.6	31.7	19.1	13.9	11.1	8.0	5.1	3.36	2.73	1.39
1.67V	97.4	64.8	50.3	31.8	19.2	14.0	11.2	8.0	5.1	3.37	2.74	1.40
1.60V	104.3	67.9	51.9	32.2	19.3	14.1	11.3	8.0	5.2	3.40	2.77	1.45

UPS 12-100 MRX

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

EPV	5 min	10 min	15 min	20 min	25 min	30 min	45 min	60 min	90 min	2 hr	3 hr	4 hr	5 hr	8 hr	10 hr	12 hr	20 hr
1.85	142.5	105.3	86.4	72.7	63.6	57.0	44.2	36.9	27.4	22.2	15.9	12.6	10.5	7.2	5.9	5.0	3.2
1.80	157.1	117.1	95.2	79.3	68.8	61.3	47.0	39.0	28.6	22.9	16.5	13.0	10.9	7.4	6.1	5.2	3.3
1.75	165.8	126.4	99.5	82.8	71.8	63.9	48.6	40.0	29.0	23.1	16.6	13.2	11.0	7.5	6.2	5.3	3.4
1.70	172.2	131.0	103.3	85.5	73.7	65.4	49.4	40.5	29.3	23.3	16.7	13.3	11.1	7.5	6.2	5.3	3.4
1.67	176.1	133.3	105.7	87.1	74.9	66.3	49.9	40.8	29.4	23.4	16.8	13.3	11.1	7.5	6.2	5.3	3.4
1.65	178.8	135.8	107.3	88.2	75.7	66.9	50.2	41.0	29.6	23.4	16.8	13.3	11.1	7.6	6.2	5.3	3.4

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

EPV	5 min	10 min	15 min	30 min	60 min	90 min	2 hr	3 hr	4 hr	5 hr	6 hr	7 hr	8 hr	10 hr	12 hr	20 hr	24 hr
1.90	68.2	52.4	42.2	28.4	18.2	13.2	10.5	7.5	5.9	4.9	4.2	3.7	3.3	2.7	2.3	1.5	1.3
1.85	80.0	61.1	48.5	31.4	20.1	14.4	11.4	8.2	6.4	5.4	4.6	4.0	3.6	2.9	2.5	1.6	1.4
1.80	88.6	68.0	53.7	33.6	21.0	15.1	11.9	8.5	6.7	5.6	4.8	4.2	3.7	3.1	2.6	1.7	1.4
1.75	93.3	71.3	56.3	34.9	21.5	15.4	12.1	8.6	6.8	5.7	4.9	4.3	3.8	3.1	2.6	1.7	1.4

MRX Series

UPS 12-150 MRX

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

EPV	5 min	10 min	15 min	20 min	25 min	30 min	45 min	60 min	90 min	2 hr	3 hr	4 hr	5 hr	8 hr	10 hr	12 hr	20 hr
1.85	204.6	156.5	124.0	101.6	87.1	76.7	57.0	46.2	32.6	25.5	18.0	14.1	11.6	7.8	6.4	5.3	3.2
1.80	226.1	172.7	137.0	110.7	93.8	82.0	59.7	47.7	33.7	26.3	18.6	14.6	12.0	8.0	6.6	5.5	3.3
1.75	236.0	179.8	143.0	114.7	96.6	84.0	60.6	48.1	33.9	26.5	18.7	14.7	12.2	8.2	6.7	5.6	3.4
1.70	245.9	185.4	147.0	117.7	99.0	86.0	61.5	48.5	34.2	26.7	18.9	14.9	12.2	8.2	6.8	5.6	3.4
1.67	249.2	189.2	150.0	119.4	100.0	86.5	61.8	48.7	34.3	26.8	18.9	14.9	12.3	8.2	6.8	5.7	3.4
1.65	250.8	192.2	152.0	120.6	100.7	87.0	62.1	48.9	34.5	26.9	19.0	15.0	12.3	8.3	6.8	5.7	3.4

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

EPV	5 min	10 min	15 min	30 min	60 min	90 min	2 hr	3 hr	4 hr	5 hr	6 hr	7 hr	8 hr	10 hr	12 hr	20 hr	24 hr
1.90	103.4	79.3	62.7	38.4	23.0	16.0	12.4	8.7	6.7	5.5	4.7	4.1	3.6	3.0	2.5	1.6	1.4
1.85	118.6	90.9	71.8	42.6	25.2	17.5	13.5	9.4	7.3	5.9	5.0	4.4	3.9	3.2	2.7	1.7	1.5
1.80	128.4	98.5	77.8	45.3	26.4	18.3	14.2	9.8	7.6	6.2	5.2	4.6	4.0	3.3	2.8	1.8	1.5
1.75	134.1	102.7	80.0	46.7	26.8	18.6	14.3	9.9	7.6	6.2	5.3	4.6	4.1	3.4	2.8	1.8	1.5

UPS 12-220 MRX

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

EPV	5 min	10 min	15 min	20 min	25 min	30 min	45 min	60 min	90 min	2 hr	3 hr	4 hr	5 hr	8 hr	10 hr	12 hr	20 hr
1.85	305.1	229.7	184.9	154.0	133.6	119.0	90.8	75.0	54.1	42.9	29.7	22.8	18.6	12.1	9.9	8.4	5.3
1.80	336.9	255.6	202.2	166.3	142.9	126.3	95.4	78.2	56.2	44.5	30.7	23.6	19.3	12.5	10.2	8.7	5.4
1.75	355.0	267.5	211.0	172.5	147.6	129.9	96.9	78.7	57.1	45.5	31.4	24.1	19.7	12.8	10.4	8.8	5.5
1.70	366.6	273.8	217.0	176.3	150.0	131.5	97.9	79.4	57.5	45.7	31.5	24.2	19.7	12.8	10.5	8.9	5.5
1.67	371.6	277.6	220.0	178.2	151.3	132.4	98.5	79.8	57.7	45.8	31.6	24.3	19.8	12.9	10.5	8.9	5.6
1.65	375.0	280.2	222.0	179.5	152.2	133.0	98.8	80.0	57.9	46.0	31.7	24.3	19.8	12.9	10.5	8.9	5.6

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

EPV	5 min	10 min	15 min	30 min	60 min	90 min	2 hr	3 hr	4 hr	5 hr	6 hr	7 hr	8 hr	10 hr	12 hr	20 hr	24 hr
1.90	153.3	119.2	95.6	60.8	35.0	24.5	19.0	13.3	10.3	8.4	7.1	6.2	5.5	4.5	3.8	2.4	2.1
1.85	176.4	130.9	106.9	66.9	38.6	26.9	20.8	14.5	11.2	9.1	7.7	6.7	6.0	4.9	4.1	2.6	2.2
1.80	189.7	139.7	115.0	71.0	39.8	27.7	21.4	14.9	11.5	9.5	8.0	7.0	6.2	5.1	4.3	2.7	2.3
1.75	197.4	145.0	119.6	72.4	40.7	28.3	21.9	15.2	11.8	9.6	8.2	7.1	6.3	5.2	4.4	2.8	2.4

UPS 12-320R MRX

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

EPV	5 min	10 min	15 min	20 min	25 min	30 min	45 min	60 min	90 min	2 hr	3 hr	4 hr	5 hr	8 hr	10 hr	12 hr	20 hr
1.85	458.4	346.7	277.8	230.4	199.2	176.9	134.5	110.7	80.5	64.2	44.5	34.4	28.1	18.4	15.1	12.8	8.1
1.80	502.6	378.1	304.6	249.7	213.9	188.6	141.9	115.9	83.9	66.7	46.2	35.6	29.1	19.0	15.5	13.2	8.3
1.75	526.2	395.1	314.2	257.2	220.2	194.0	145.4	118.5	85.5	67.9	47.0	36.2	29.5	19.3	15.8	13.4	8.4
1.70	535.3	406.2	321.4	263.2	225.4	198.6	147.0	118.8	85.9	68.3	47.3	36.4	29.7	19.4	15.8	13.4	8.4
1.67	544.3	413.0	326.3	266.6	227.8	200.4	147.7	119.0	86.2	68.6	47.4	36.5	29.8	19.5	15.9	13.5	8.5
1.65	547.5	417.7	329.3	269.3	230.3	202.7	148.7	119.4	86.5	68.8	47.6	36.6	29.9	19.5	15.9	13.5	8.5

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

EPV	5 min	10 min	15 min	30 min	60 min	90 min	2 hr	3 hr	4 hr	5 hr	6 hr	7 hr	8 hr	10 hr	12 hr	20 hr	24 hr
1.90	200.2	170.7	135.2	87.3	53.4	37.6	29.4	20.7	16.2	13.4	11.4	9.8	8.7	7.1	6.0	3.7	3.1
1.85	248.3	185.0	150.5	95.9	58.0	40.8	31.8	22.4	17.5	14.5	12.3	10.6	9.4	7.6	6.5	4.0	3.4
1.80	267.8	196.8	162.3	101.8	60.7	42.6	33.1	23.3	18.2	15.1	12.8	11.1	9.8	7.9	6.7	4.1	3.5
1.75	277.5	203.2	168.2	105.4	62.0	43.5	33.8	23.7	18.5	15.4	13.0	11.2	9.9	8.0	6.8	4.2	3.5

UPS 12-370R MRX Constant Power Discharge Table - Watts Per Cell @ 25°C (77°F)

EPV	5 min	10 min	15 min	20 min	25 min	30 min	45 min	60 min	90 min	2 hr	3 hr	4 hr	5 hr	8 hr	10 hr	12 hr	20 hr
1.85	523.1	391.5	310.7	262.1	229.7	206.2	158.6	131.6	93.4	73.2	52.0	40.8	33.8	22.5	18.4	15.5	9.8
1.80	572.1	435.3	339.8	283.3	245.9	219.2	167.0	137.7	97.4	76.1	53.8	42.8	34.6	23.0	18.8	16.0	10.1
1.75	605.2	461.0	359.5	297.3	256.5	227.4	171.3	140.1	98.8	77.1	54.4	42.6	34.9	23.2	19.0	16.2	10.4
1.70	622.7	474.8	369.9	304.5	261.8	231.5	174.3	142.5	100.2	78.0	54.9	42.8	35.2	23.4	19.1	16.3	10.4
1.67	633.5	484.7	376.3	309.0	265.1	234.0	175.9	143.7	100.8	78.4	55.2	43.0	35.4	23.5	19.2	16.4	10.4
1.65	640.8	491.5	380.6	312.0	267.3	235.7	177.3	144.9	101.5	78.8	55.3	43.1	35.5	23.5	19.2	16.4	10.5

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

EPV	5 min	10 min	15 min	30 min	60 min	90 min	2 hr	3 hr	4 hr	5 hr	6 hr	7 hr	8 hr	10 hr	12 hr	20 hr	24 hr
1.90	217.8	191.5	159.6	103.3	61.7	43.3	33.7	23.6	18.4	15.1	12.9	11.3	10.0	8.3	7.0	4.5	3.8
1.85	291.3	223.0	178.0	114.5	67.4	47.2	36.7	25.7	20.0	16.4	14.0	12.2	10.9	8.9	7.6	4.9	4.1
1.80	316.8	241.4	192.0	122.5	69.3	48.6	37.8	26.5	20.6	17.0	14.5	12.6	11.3	9.3	7.9	5.1	4.3
1.75	330.3	251.3	200.2	125.5	71.0	49.7	38.6	27.1	21.0	17.3	14.7	12.9	11.4	9.4	8.0	5.1	4.4

UPS 12-400 MRX Constant Power Discharge Table - Watts Per Cell @ 25°C (77°F)

EPV	5 min	10 min	15 min	20 min	25 min	30 min	45 min	60 min	90 min	2 hr	3 hr	4 hr	5 hr	8 hr	10 hr	12 hr	20 hr
1.85	547.6	411.9	338.7	286.4	251.4	226.0	175.4	146.5	104.3	81.9	58.3	45.8	38.0	25.2	20.5	17.3	10.8
1.80	614.9	461.7	372.7	311.0	270.2	241.0	185.4	153.9	109.2	85.6	60.7	47.6	39.4	26.2	21.3	17.9	11.2
1.75	640.3	483.1	386.1	323.7	282.2	252.4	191.3	157.2	111.4	87.2	61.8	48.4	40.0	26.6	21.6	18.2	11.3
1.70	664.0	502.9	399.8	333.3	289.4	257.9	194.0	158.5	112.3	87.9	62.2	48.7	40.3	27.0	21.8	18.4	11.3
1.67	674.0	516.7	407.7	339.0	293.8	261.4	195.6	159.3	112.8	88.3	62.5	48.9	40.5	27.1	21.9	18.4	11.4
1.65	679.3	522.4	411.6	342.2	296.4	263.7	196.7	159.8	113.1	88.6	62.7	49.1	40.6	27.1	22.0	18.5	11.4

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

EPV	5 min	10 min	15 min	30 min	60 min	90 min	2 hr	3 hr	4 hr	5 hr	6 hr	7 hr	8 hr	10 hr	12 hr	20 hr	24 hr
1.90	214.4	201.5	162.3	109.9	68.2	47.6	36.9	25.8	20.0	16.4	14.0	12.2	10.8	8.9	7.6	4.8	4.1
1.85	295.7	236.8	189.0	122.2	74.8	52.2	40.4	28.2	21.8	17.9	15.2	13.3	11.8	9.7	8.2	5.2	4.4
1.80	346.5	262.6	210.0	131.0	78.7	54.7	42.3	29.4	22.7	18.6	15.8	13.8	12.2	10.0	8.5	5.4	4.6
1.75	363.0	277.5	220.0	134.8	79.7	55.5	42.9	29.8	23.2	19.0	16.1	14.0	12.5	10.2	8.6	5.5	4.6

UPS 12-475 MRX Constant Power Discharge Table - Watts Per Cell @ 25°C (77°F)

EPV	5 min	10 min	15 min	20 min	25 min	30 min	45 min	60 min	90 min	2 hr	3 hr	4 hr	5 hr	8 hr	10 hr	12 hr	20 hr
1.85	552.4	472.4	378.0	315.7	274.6	245.0	189.1	157.3	109.9	85.1	59.5	46.1	37.8	25.0	20.5	17.4	11.1
1.80	664.2	527.6	415.0	343.4	296.4	262.9	200.6	165.6	115.3	89.2	62.1	48.0	39.3	25.9	21.2	18.0	11.4
1.75	727.7	575.5	441.0	362.4	311.1	274.7	207.0	169.3	117.7	90.9	63.2	48.9	40.0	26.2	21.5	18.2	11.5
1.70	759.0	604.1	460.0	375.2	320.3	281.5	210.4	171.2	118.9	91.8	63.8	49.2	40.3	26.4	21.6	18.3	11.6
1.67	783.8	621.9	475.0	384.7	326.6	285.8	212.6	172.3	119.6	92.3	64.1	49.5	40.5	26.5	21.7	18.4	11.6
1.65	790.4	634.0	479.0	388.2	329.8	288.7	214.1	173.2	120.1	92.7	64.3	49.6	40.6	26.6	21.7	18.4	11.6

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

EPV	5 min	10 min	15 min	30 min	60 min	90 min	2 hr	3 hr	4 hr	5 hr	6 hr	7 hr	8 hr	10 hr	12 hr	20 hr	24 hr
1.90	267.5	238.1	187.5	119.2	73.8	51.4	39.7	27.6	21.4	17.5	14.9	13.0	11.5	9.4	8.0	5.1	4.3
1.85	358.9	276.7	217.5	132.9	81.5	56.5	43.6	30.3	23.3	19.1	16.2	14.1	12.5	10.2	8.7	5.5	4.6
1.80	397.7	305.2	241.0	142.7	85.7	59.4	45.8	31.7	24.4	19.9	16.9	14.7	13.0	10.6	9.0	5.7	4.8
1.75	424.5	325.8	257.3	148.8	86.6	60.5	46.9	32.4	24.9	20.3	17.2	15.0	13.2	10.8	9.1	5.7	4.9

MRX Series

UPS 12- 490 MRX

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

EPV	5 min	10 min	15 min	20 min	25 min	30 min	45 min	60 min	90 min	2 hr	3 hr	4 hr	5 hr	8 hr	10 hr	12 hr	20 hr
1.85	545.6	447.3	372.8	323.0	288.9	263.8	208.2	176.0	129.4	104.0	73.8	57.9	48.1	32.1	26.5	22.7	14.6
1.80	641.0	520.5	421.8	359.0	316.8	286.1	222.4	186.0	136.8	110.0	77.8	60.7	50.0	33.3	27.5	23.5	15.1
1.75	695.0	560.6	449.5	379.0	332.0	298.0	229.0	190.0	138.5	110.7	78.2	61.7	50.9	33.8	27.9	23.8	15.3
1.70	752.8	602.9	478.9	400.3	348.2	310.8	235.9	194.0	140.1	111.2	78.6	61.4	50.8	34.0	28.1	24.0	15.5
1.67	794.3	624.0	494.9	411.4	356.4	317.0	238.6	195.0	140.7	111.6	78.9	61.7	50.9	34.1	28.1	24.1	15.5
1.65	825.2	643.2	505.8	419.0	362.0	321.3	240.6	196.0	141.2	111.9	79.1	61.8	51.1	34.1	28.2	24.1	15.6

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

EPV	5 min	10 min	15 min	30 min	60 min	90 min	2 hr	3 hr	4 hr	5 hr	6 hr	7 hr	8 hr	10 hr	12 hr	20 hr	24 hr
1.90	214.2	212.4	188.8	131.0	80.0	58.2	46.4	33.4	26.4	22.0	19.1	16.7	14.8	12.0	10.2	6.4	5.4
1.85	295.0	269.1	220.2	147.6	91.5	65.5	51.6	36.9	29.1	24.2	21.0	18.4	16.3	13.3	11.3	7.1	6.0
1.80	383.7	312.2	249.6	160.0	97.2	69.2	54.4	38.7	30.4	25.2	21.8	19.1	16.9	13.8	11.7	7.3	6.2
1.75	422.3	334.0	266.5	166.3	98.5	70.0	55.0	39.4	31.2	25.8	22.3	19.6	17.3	14.1	11.9	7.5	6.3

UPS 12- 550 MRX

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

EPV	5 min	10 min	15 min	20 min	25 min	30 min	45 min	60 min	90 min	2 hr	3 hr	4 hr	5 hr	8 hr	10 hr	12 hr	20 hr
1.85	583.7	493.2	408.3	350.6	311.5	282.8	224.4	190.4	135.6	106.6	76.0	59.7	49.5	33.4	27.2	23.1	14.5
1.80	709.7	579.3	467.7	393.2	343.7	307.9	239.8	200.8	142.3	111.4	79.0	61.9	51.2	34.6	28.4	24.0	15.0
1.75	795.0	635.6	508.7	422.0	365.0	324.2	248.9	206.3	145.9	114.0	80.6	63.0	52.1	35.2	28.7	24.2	15.2
1.70	854.9	675.4	534.1	439.4	377.5	333.6	253.4	208.5	147.2	115.0	81.2	63.5	52.4	35.3	28.8	24.4	15.3
1.67	896.9	704.1	550.1	453.9	391.0	346.2	258.2	209.7	148.0	115.6	81.6	63.7	52.6	35.4	28.8	24.4	15.3
1.65	927.7	715.2	561.1	461.5	396.5	350.3	259.8	210.2	148.5	116.0	81.8	63.9	52.7	35.5	28.9	24.4	15.3

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

EPV	5 min	10 min	15 min	30 min	60 min	90 min	2 hr	3 hr	4 hr	5 hr	6 hr	7 hr	8 hr	10 hr	12 hr	20 hr	24 hr
1.90	284.9	246.3	206.9	145.3	88.4	64.5	51.7	36.4	28.5	23.6	20.0	17.3	15.4	12.5	10.6	6.7	5.6
1.85	350.2	294.6	246.6	162.4	97.3	71.2	57.0	39.7	30.8	25.2	21.4	18.7	16.6	13.6	11.6	7.3	6.2
1.80	423.8	342.0	279.0	176.5	103.2	75.1	59.9	41.6	32.2	26.3	22.4	19.5	17.3	14.1	12.0	7.6	6.4
1.75	467.3	363.2	299.0	182.9	106.3	77.1	61.4	42.6	32.8	26.8	22.8	19.8	17.6	14.4	12.2	7.7	6.5

UPS 12- 630 MRX

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

EPV	5 min	10 min	15 min	20 min	25 min	30 min	45 min	60 min	90 min	2 hr	3 hr	4 hr	5 hr	8 hr	10 hr	12 hr	20 hr
1.85	817.3	658.1	532.4	443.0	377.6	336.4	245.2	195.9	140.0	110.3	76.5	58.9	48.1	31.4	25.6	21.7	13.6
1.80	947.9	735.4	583.5	480.2	405.5	358.8	258.1	204.2	145.6	114.5	79.4	61.1	49.9	32.6	26.6	22.5	14.0
1.75	1008.3	783.1	612.1	499.9	419.3	369.2	265.0	209.5	149.2	117.3	81.3	62.5	51.0	33.3	27.1	23.0	14.3
1.70	1039.3	799.9	625.4	508.5	424.9	373.1	267.7	211.5	150.5	118.3	81.9	63.0	51.4	33.5	27.3	23.1	14.4
1.67	1048.8	808.7	630.0	512.4	428.2	376.1	269.7	213.0	151.5	118.9	82.3	63.3	51.6	33.5	27.3	23.1	14.4
1.65	1064.4	816.5	636.1	516.4	430.9	378.0	270.9	213.9	152.1	119.4	82.5	63.4	51.7	33.6	27.4	23.1	14.4

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

EPV	5 min	10 min	15 min	30 min	60 min	90 min	2 hr	3 hr	4 hr	5 hr	6 hr	7 hr	8 hr	10 hr	12 hr	20 hr	24 hr
1.90	260.7	256.7	217.1	146.8	88.1	62.6	49.1	34.4	26.6	21.7	18.4	15.9	14.1	11.5	9.7	6.1	5.1
1.85	368.4	312.8	253.7	167.9	98.2	69.4	54.3	38.0	29.4	24.0	20.3	17.6	15.5	12.6	10.6	6.6	5.6
1.80	455.9	362.4	292.0	185.0	104.2	73.4	57.2	40.2	31.0	25.2	21.3	18.4	16.2	13.2	11.1	6.9	5.8
1.75	495.3	389.9	311.3	189.5	106.4	74.7	58.1	40.8	31.4	25.5	21.5	18.6	16.4	13.3	11.2	7.0	5.9

UPS 12-700 MRX

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

EPV	5 min	10 min	15 min	20 min	25 min	30 min	45 min	60 min	90 min	2 hr	3 hr	4 hr	5 hr	8 hr	10 hr	12 hr	20 hr
1.85	737.8	690.8	595.4	503.3	434.9	391.4	308.2	260.2	192.9	155.9	111.9	87.7	72.6	48.7	40.3	34.6	22.0
1.80	963.4	780.5	651.2	548.1	471.9	423.5	329.1	275.1	203.3	164.0	117.4	91.8	75.8	50.7	41.9	35.9	22.7
1.75	1062.9	824.0	676.2	568.2	488.5	437.9	338.5	281.9	206.9	166.2	119.1	93.2	76.8	51.6	42.7	36.5	23.2
1.70	1120.1	853.9	692.5	582.1	500.5	448.8	344.4	285.3	209.5	168.2	120.3	94.0	77.7	52.1	43.1	36.9	23.4
1.67	1138.4	866.3	700.0	588.0	505.3	452.9	346.3	286.2	210.3	168.9	120.8	94.4	78.0	52.2	43.1	36.9	23.4
1.65	1151.2	874.4	707.2	592.8	508.6	455.3	348.3	288.0	211.2	169.5	121.1	94.6	78.2	52.3	43.2	36.9	23.4

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

EPV	5 min	10 min	15 min	30 min	60 min	90 min	2 hr	3 hr	4 hr	5 hr	6 hr	7 hr	8 hr	10 hr	12 hr	20 hr	24 hr
1.90	254.3	254.3	250.7	176.3	117.6	85.7	68.5	50.4	40.5	33.6	28.8	25.3	22.5	18.5	15.7	9.9	8.3
1.85	380.5	364.9	301.2	198.7	132.6	96.8	77.4	55.7	44.7	37.0	31.6	27.7	24.6	20.2	17.1	10.7	9.1
1.80	506.6	437.7	342.8	220.5	141.0	102.2	81.3	58.9	47.1	38.8	33.2	29.0	25.8	21.1	17.9	11.2	9.4
1.75	586.4	461.5	359.1	225.6	144.9	104.4	82.7	60.2	48.1	39.6	33.9	29.6	26.3	21.5	18.3	11.4	9.6

UPS 12-720 MRX

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

EPV	5 min	10 min	15 min	20 min	25 min	30 min	45 min	60 min	90 min	2 hr	3 hr	4 hr	5 hr	8 hr	10 hr	12 hr	20 hr
1.85	758.9	710.6	612.4	517.7	447.3	402.5	317.0	267.6	198.4	160.4	115.1	90.2	74.6	50.1	41.5	35.5	22.6
1.80	990.9	802.8	669.9	563.8	485.4	435.6	338.5	283.0	209.1	168.7	120.7	94.4	78.0	52.2	43.1	36.9	23.4
1.75	1093.2	847.6	695.6	584.5	502.5	450.4	348.1	290.0	212.9	170.9	122.5	95.8	79.0	53.1	43.9	37.5	23.8
1.70	1152.1	878.3	712.3	598.7	514.8	461.6	354.2	293.5	215.5	173.1	123.7	96.7	79.9	53.6	44.3	37.9	24.0
1.67	1170.9	891.0	720.0	604.8	519.8	465.9	356.2	294.4	216.3	173.7	124.2	97.1	80.2	53.7	44.3	37.9	24.1
1.65	1184.1	899.3	727.4	609.8	523.2	468.3	358.2	296.2	217.3	174.4	124.5	97.3	80.4	53.8	44.4	38.0	24.1

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

EPV	5 min	10 min	15 min	30 min	60 min	90 min	2 hr	3 hr	4 hr	5 hr	6 hr	7 hr	8 hr	10 hr	12 hr	20 hr	24 hr
1.90	261.6	261.6	257.8	181.4	120.9	88.1	70.4	51.9	41.7	34.6	29.6	26.0	23.2	19.0	16.2	10.1	8.6
1.85	391.3	375.3	309.8	204.4	136.4	99.6	79.7	57.3	46.0	38.0	32.6	28.4	25.3	20.7	17.6	11.0	9.3
1.80	521.1	450.2	352.6	226.8	145.1	105.1	83.6	60.6	48.5	39.9	34.1	29.8	26.6	21.7	18.4	11.5	9.7
1.75	603.1	474.7	369.4	232.0	149.0	107.4	85.1	61.9	49.5	40.8	34.8	30.5	27.0	22.2	18.8	11.7	9.9

UPS 12-800 MRX

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

EPV	5 min	10 min	15 min	20 min	25 min	30 min	45 min	60 min	90 min	2 hr	3 hr	4 hr	5 hr	8 hr	10 hr	12 hr	20 hr
1.85	862.3	786.7	662.6	556.3	477.9	422.5	320.9	261.5	195.0	158.3	114.1	89.6	74.4	49.8	40.9	34.7	21.7
1.80	1120.1	907.8	744.0	618.1	526.2	462.1	348.1	282.0	208.6	168.4	120.9	94.5	78.0	51.9	42.5	36.1	22.7
1.75	1263.6	955.7	776.8	644.6	548.1	481.0	360.6	291.2	213.7	171.6	123.5	96.3	79.3	52.8	43.2	36.8	23.1
1.70	1301.5	983.7	795.5	660.8	562.4	493.9	369.3	297.6	217.8	174.5	125.2	97.7	80.4	53.6	44.0	37.3	23.4
1.67	1311.2	990.9	800.0	665.9	567.8	499.3	372.4	299.6	219.2	175.7	125.9	98.2	81.0	53.9	44.3	37.5	23.6
1.65	1320.6	996.2	805.7	670.4	571.4	502.3	374.3	300.9	220.1	176.4	126.3	98.6	81.4	54.2	44.5	37.7	23.6

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

EPV	5 min	10 min	15 min	30 min	60 min	90 min	2 hr	3 hr	4 hr	5 hr	6 hr	7 hr	8 hr	10 hr	12 hr	20 hr	24 hr
1.90	312.1	303.3	271.9	189.0	123.1	91.0	73.4	53.0	41.5	34.3	29.1	25.4	22.6	18.5	15.7	9.9	8.3
1.85	455.7	399.1	329.6	214.7	135.7	100.1	80.6	58.2	45.7	37.6	31.9	27.7	24.6	20.1	17.0	10.6	8.9
1.80	599.4	473.4	371.5	231.7	143.2	105.7	85.2	61.6	48.0	39.4	33.4	29.0	25.7	21.0	17.8	11.1	9.3
1.75	690.7	506.2	401.1	239.8	146.5	108.2	87.3	63.0	49.1	40.4	34.2	29.7	26.3	21.5	18.2	11.3	9.5

MRX Series

UPS 12-830 MRX

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

EPV	5 min	10 min	15 min	20 min	25 min	30 min	45 min	60 min	90 min	2 hr	3 hr	4 hr	5 hr	8 hr	10 hr	12 hr	20 hr
1.85	894.7	816.2	687.5	577.2	495.8	438.3	332.9	271.3	202.3	164.2	118.4	93.0	77.2	51.7	42.4	36.0	19.0
1.80	1162.1	941.8	771.9	641.3	545.9	479.4	361.2	292.6	216.4	174.7	125.5	98.0	80.9	53.9	44.1	37.4	19.9
1.75	1310.9	991.6	805.9	668.7	568.7	499.1	374.2	302.1	221.7	178.0	128.1	99.9	82.3	54.8	44.9	38.1	20.2
1.70	1350.3	1020.6	825.3	685.5	583.5	512.4	383.1	308.8	226.0	181.1	129.9	101.4	83.4	55.6	45.6	38.7	20.4
1.67	1360.4	1028.0	830.0	690.8	589.1	518.0	386.3	310.8	227.5	182.3	130.6	101.9	84.0	56.0	46.0	39.0	20.6
1.65	1370.1	1033.6	836.0	695.5	592.8	521.1	388.3	312.1	228.4	183.0	131.0	102.3	84.4	56.2	46.1	39.1	20.7

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

EPV	5 min	10 min	15 min	30 min	60 min	90 min	2 hr	3 hr	4 hr	5 hr	6 hr	7 hr	8 hr	10 hr	12 hr	20 hr	24 hr
1.90	323.8	314.6	282.1	196.0	127.8	94.4	76.2	55.0	43.0	35.6	30.2	26.4	23.4	19.2	16.3	10.3	8.6
1.85	472.8	414.1	342.0	222.8	140.8	103.8	83.6	60.4	47.4	39.0	33.1	28.8	25.5	20.8	17.7	11.0	9.3
1.80	621.9	491.2	385.4	240.4	148.5	109.7	88.4	63.9	49.8	40.9	34.7	30.1	26.7	21.8	18.5	11.5	9.6
1.75	716.6	525.2	416.1	248.8	152.0	112.2	90.5	65.4	50.9	41.9	35.5	30.9	27.3	22.3	18.9	11.8	9.9

Note: Batteries to be mounted with 0.5 in. (1.25 cm) spacing minimum and free air ventilation. Specifications subject to change without notification.

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