

12-1079



**DYNASTY®**

**TRUE  
FRONT  
ACCESS  
HIGH RATE MAX  
UPS 12-355MRF**



**Valve Regulated Lead Acid (VRLA) Battery Series  
Designed for UPS Standby Power Applications**

**FEATURES & BENEFITS**

**APPLICATIONS**

- Data Centers
- Network Operations Centers
- Industrial Process Control Facilities
- Internet Housing Sites
- Semiconductor Manufacturing
- Banks & Financial Markets
- Power Generation Plants
- Hospitals & Testing Laboratories
- Emergency 911 Response Centers

- True Front Access threaded copper alloy inserts for reduced maintenance and increased safety
- Terminal versatility - ease of diagnostic readings with C&D Ohmic Ring®
- Innovative front terminal design maximizing energy density with direct connect extrusion fusion weld technology
- Reduced headspace driving higher energy density, in cabinet or rack applications
- Removable handles for ease of installation
- Thermally welded case-to-cover bond to ensure a leak-proof seal
- Flame-retardant polypropylene case and cover compliant with UL94 V-0 with an Oxygen Limiting Index of greater than 28
- Absorbent Glass Mat (AGM) technology for efficient gas recombination of over 99%
- Optional True Front Access gas collection system
- Multicell design for ease of installation and maintenance
- UL-recognized component
- Compliant to major global specifications
  - UL1778, 924, 1989
  - BS 6290-4
  - IEC 896-2
  - UL94 V-0
- Not restricted for air transport - Complies with IATA/ICAO Special Provision 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 Amendment 27
- 3 Year Full Warranty (refer to Dynasty warranty card, 41-9027)

**SPECIFICATIONS**

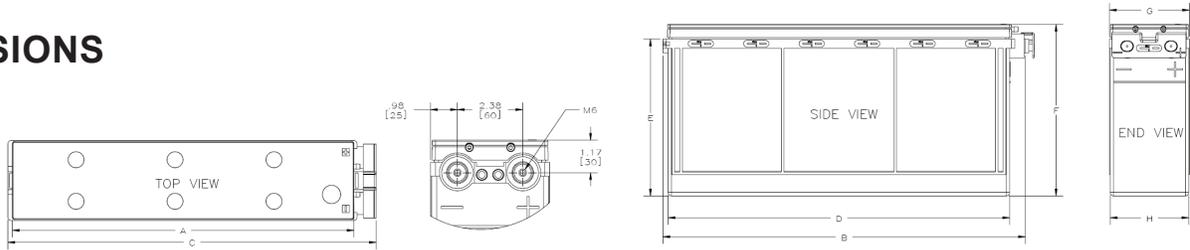
Constant Power Discharge Ratings - Watts per cell @ 77°F (25°C)											
Model Number	Voltage Per Unit	20 hour Rate @ 77°F (25°C) to 1.75	Operating time (in minutes) to 1.67 volts per cell								
			5	10	15	20	30	40	50	60	90
UPS12-355MRF	12 V	108 Ah	591.3	440.8	358.4	299.7	229.4	190.5	164.9	146.6	105.6

\*Nominal 20 hr rate to 1.75 VPC in Ampere-Hours

# SPECIFICATIONS

Model	Cells Per Unit	Battery Weight		Maximum Terminal Discharge Current Rating (AMPS)	Ohms Impedance 60 HZ (Ω)
		lbs	kg		
UPS12-355MRF	6	80	36	800	0.0030

# DIMENSIONS



Model	A		B		C		D		E		F		G		H	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
UPS12-355MRF	18.5	469	19.5	496	20.1	511	18.5	470	8.5	216	9.3	235	4.3	110	4.2	107

\*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</b>	C/5 amperes @ 20 Hr rate
<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/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 brochure 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 M6 bolt
<b>Terminal Hardware Initial Torque</b>	110 in.-lbs. (12.4 N-m)

# UPS 12-355MRF

Constant Power Discharge Ratings - Watts Per Cell @ 77°F (25°C)										
Operating Time to End Point Voltage (in minutes)										
End Point Volts/Cell	5	10	15	20	30	40	45	50	60	90
1.75	543.9	411.8	334.9	283.3	220.6	183.8	170.6	159.6	142.2	103.1
1.70	578.3	431.1	350.5	294.0	226.0	188.0	174.4	163.0	145.1	104.7
1.67	591.3	440.8	358.4	299.7	229.4	190.5	176.6	164.9	146.6	105.6
1.65	600.6	447.7	364.0	303.7	231.7	192.5	178.5	166.8	148.3	106.5

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

## C&D TECHNOLOGIES, INC.

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**DYNASTY®**

**TRUE FRONT ACCESS**  
**HIGH RATE MAX**  
**UPS 12-615MRF**  
**UPS 12-700MRF**



**Valve Regulated Lead Acid (VRLA) Battery Series**  
**Designed for UPS Standby Power Applications**

**FEATURES & BENEFITS**

**APPLICATIONS**

- Data Centers
- Network Operations Centers
- Industrial Process Control Facilities
- Internet Hosting Sites
- Semiconductor Manufacturing
- Banks & Financial Markets
- Power Generation Plants
- Hospitals & Testing Laboratories
- Emergency 911 Response Centers

- 10 Year Design Life @ 25°C
- True Front Access threaded copper alloy inserts for reduced maintenance and increased safety.
- Patented Long Life Alloy having the lowest calcium levels in the industry - minimizing grid growth, reducing gassing, and extending battery life.
- Terminal versatility - ease of diagnostic readings with C&D Ohmic Ring®
- Innovative front terminal design maximizing energy density with direct connect extrusion fusion weld technology.
- Reduced headspace requirements resulting in higher energy density for cabinet or rack applications
- Removable handles for ease of installation
- Thermally welded case-to-cover bond to ensure a leak-proof seal.
- Flame-retardant polypropylene case and cover compliant with UL94 V-0 with an Oxygen Limiting Index of greater than 28.
- Absorbent Glass Mat (AGM) technology for efficient gas recombination of over 99%.
- Flame-arresting, one-way pressure-relief vent for safety and long life.
- Complies with UL1778, 924, 1989 and 94 V-0. BS6290-4, IEC-896-2.
- UL-recognized component.
- Multicell design for ease of installation and maintenance.
- Not restricted for air transport - Complies with IATA/ICAO Special Provision 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 Amendment 27.

**SPECIFICATIONS**

Model	Voltage	AH 20 hr*	Constant Power Discharge Ratings - Watts per Cell @ 77°F (25°F)								
			Operating Time (in minutes) to 1.67 Volts per Cell								
			5	10	15	20	30	40	50	60	90
UPS12-615MRF	12	176	939	750	614	516	390	313	262	228	166
UPS12-700MRF	12	206	1059	854	697	575	433	349	294	255	183

\*Nominal 20 hr rate to 1.75 VPC in Ampere-Hours @ 25°C

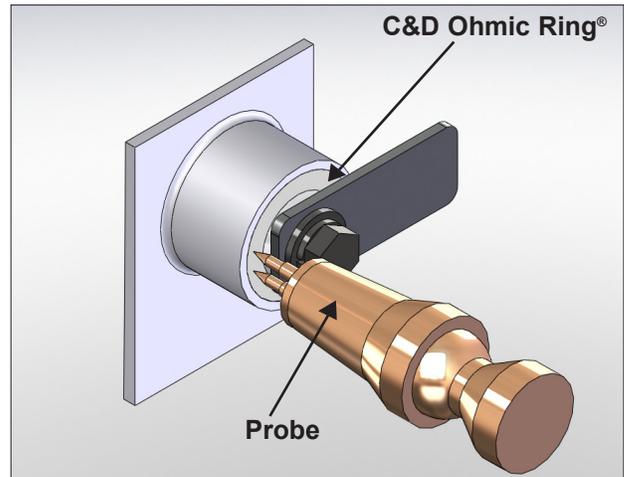
## INTRODUCING A UPS FRONT ACCESS BATTERY WITH TRUE FRONT ACCESS TERMINALS

- **Direct welded front facing terminals**
  - Uses proven Dynasty Extrusion Fusion welding process for high reliability
  - Provides most efficient current path for excellent high rate performance
  - No bolted on “L” brackets which try to make a top terminals battery into a front terminal battery
  - One less bolted connection that requires maintenance, minimizes resistance, that can lead to poor string performance
- **Designed as a UPS battery from the ground up to efficiently handle high rate discharges**
  - Not a converted telecom front access battery
- **Raised Terminals for ease of maintenance and access to C&D Ohmic Ring®**



### C&D Ohmic Ring®

- **Large surface area for direct access to terminals for accurate ohmic measurements**
  - No more taking readings from bus bars or hardware which can lead to substantial errors
- **Provides consistent and accurate measuring location**
  - No guessing of the location used for the base line reading
- **Ideally sized for use with standard monitor probes on fully installed systems**
- **The Ohmic Ring design is the only terminal configuration in which micro-ohm connection resistances can be taken as required by standard maintenance programs.**



### The Dynasty True Front Access UPS Battery - The Better UPS Battery Solution

- Eliminate hard to service top terminal batteries with a full front access solution
- Higher watts per cell allows a reduction of a parallel string for most common UPS configurations, providing a reduced footprint solution
- Maintenance is significantly easier and safer with all required service points front accessible - reducing both time and cost of periodic servicing
- As a 12V battery design, the UPS12-615MRF and UPS12-700MRF models easily integrate with existing battery monitoring equipment.

## SPECIFICATIONS

<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>	+74°F (23°C) to +80°F (27°C)
<b>Recommended Maximum Charging Current Limit</b>	C <sub>20</sub> /5 amperes (35.2, 41.2)
<b>Float Charging Voltage</b>	13.5 to 13.8 VDC average per 12V unit @ 77°F (25°C)
<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 brochure 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 1/4-20 UNC bolt
<b>Terminal Hardware Torque</b>	110 in.-lbs. (12.4 N-m)

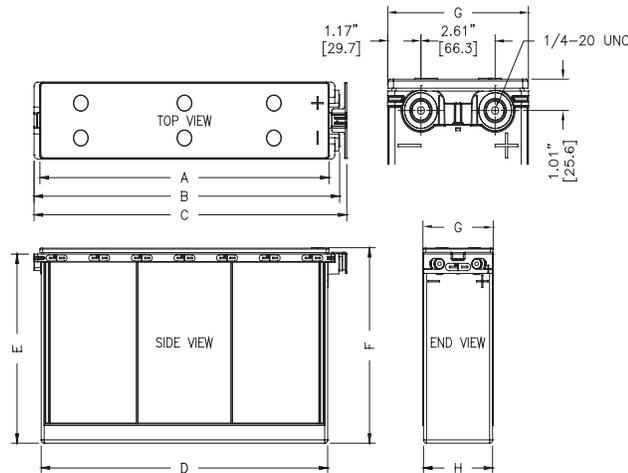
## SPECIFICATIONS

Model	Cells per Unit	Battery Weight		Maximum Terminal Discharge Current Rating (Amps)	Short Circuit Current (Amps @ 0.1 sec)	Ohms 60 Hz (Ω)
		lbs	kg			
UPS12-615MRF	6	115	53	800	4500	0.0020
UPS12-700MRF	6	131	60	800	4600	0.0021

## OHMIC VALUES

Typical Ohmic Measurement Values*				
Model	HP	Alber	Midtronics	AVO Biddle
	milli-Ohms @ 60Hz	micro-Ohms	Mhos	milli-Ohms
UPS12-615MRF	2.0	Limited Data	2400	2.3
UPS12-700MRF	2.1	3480	2500	2.4

\* Per IEEE 1188-2005. Internal ohmic values are useful as a trending tool. To use these readings effectively, accurate baseline readings should be taken after about six months of battery operation. Internal ohmic readings taken without the benefit of baseline data may be difficult to interpret and of limited value. Values provided are for reference only.



Model	A		B		C		D		E		F		G		H	
	in	mm	in	mm	in	mm										
UPS12-615MRF	20.35	516.9	21.51	546.3	22.01	559.1	20.16	512.2	10.73	272.5	11.14	283.0	4.95	125.7	4.86	123.4
UPS12-700MRF	20.35	516.9	21.51	546.3	22.01	559.1	20.16	512.2	12.19	309.6	12.60	320.0	4.95	125.7	4.86	123.4

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

## UPS12-615MRF

Constant Power Discharge Ratings - Watts Per Cell @ 77°F (25°C)									
Operating Time to End Point Voltage (in minutes)									
End Point Volts/Cell	5	10	15	20	30	40	45	50	60
1.75	787.2	677.4	573.0	486.2	369.4	299.8	274.8	254.0	221.2
1.70	863.3	713.1	594.1	504.1	383.7	309.2	281.9	259.1	223.1
1.67	938.5	750.9	613.9	515.9	389.8	313.4	285.5	262.3	225.7
1.65	958.5	771.8	628.4	525.0	393.7	315.5	287.3	263.8	227.0
1.60	977.7	785.4	638.1	532.1	397.9	318.4	289.7	265.9	228.6

Constant Current Discharge Ratings - Amperes @ 77°F (25°F)									
Operating Time to End Point Voltage (in hours)									
End Point Volts/Cell	1	2	3	5	8	10	12	20	24
1.85	102	62.0	44.2	28.6	19.0	15.6	13.2	8.24	6.95
1.80	109	64.8	46.5	30.2	20.0	16.4	13.9	8.63	7.26
1.75	114	66.8	47.9	31.0	20.5	16.8	14.2	8.79	7.39

**Note:** Batteries to be mounted with 0.5 in. (1.25 cm) spacing minimum and free air ventilation. Specifications subject to change without notification. Above ratings do not include inter-unit connector voltage drops. Additional ratings and application information are available in the Battery Selection Program found at [www.cdstandbypower.net](http://www.cdstandbypower.net)

## UPS12-700MRF

Constant Power Discharge Ratings - Watts Per Cell @ 77°F (25°C)										
Operating Time to End Point Voltage (in minutes)										
End Point Volts/Cell	5	10	15	20	30	40	45	50	60	90
1.75	821.1	700.8	596.0	512.5	398.3	326.9	300.6	278.5	243.2	177.7
1.70	961.5	804.0	665.6	559.0	422.4	341.9	312.9	288.7	250.8	181.5
1.67	1058.8	853.6	697.0	575.3	432.5	349.0	319.0	294.0	254.6	182.9
1.65	1075.6	866.0	699.2	581.1	436.1	351.8	321.5	296.3	256.7	184.5
1.60	1097.4	881.5	712.2	592.2	444.1	357.5	326.4	300.5	259.8	186.0

Constant Current Discharge Ratings - Amperes @ 77°F (25°F)										
Operating Time to End Point Voltage (in hours)										
End Point Volts/Cell	1	2	3	5	8	10	12	20	24	72
1.85	105	66.1	48.8	32.5	21.9	18.1	15.4	9.67	8.16	2.60
1.80	116	70.4	51.7	34.4	23.1	19.0	16.2	10.1	8.54	2.70
1.75	124	74.0	53.8	35.5	23.7	19.5	16.5	10.3	8.70	2.80

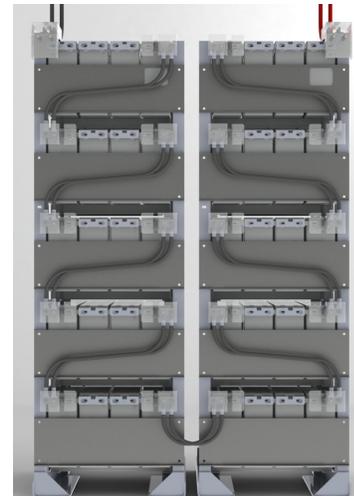
**Note:** Batteries to be mounted with 0.5 in. (1.25 cm) spacing minimum and free air ventilation. Specifications subject to change without notification. Above ratings do not include inter-unit connector voltage drops. Additional ratings and application information are available in the Battery Selection Program found at [www.cdstandbypower.net](http://www.cdstandbypower.net)

### BATTERY RACKS:

- IBC 300% certified racks available up to 5 tiers high
- Each 5 tier rack holds 20 TFA batteries
- Accessory kits with cables and terminal plates developed for ease of system configuration and installation

### BATTERY CABINETS:

- All popular DC links available 120V-480V
- Supplied with a breaker or fuse per string
- Available in stand-alone or multiple cabinet configurations
- Online configurator: [www.cdtechno.intrapack.com](http://www.cdtechno.intrapack.com)



## C&D TECHNOLOGIES, INC.

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12-1115

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**HIGH RATE MAX**

**UPS12-410MRXF  
UPS12-1000MRXF**



**Valve Regulated Lead Acid (VRLA) Battery Series  
Designed for UPS Standby Power Applications**

**FEATURES & BENEFITS**

**APPLICATIONS**

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- Flame-arresting, one-way pressure-relief vent for safety and long life
- Complies with UL1778, 924, 1989 and 94 V-0. BS6290-4, IEC-896-2
- UL-recognized component
- Multicell design for ease of installation and maintenance
- Not restricted for air transport - Complies with IATA/ICAO Special Provision 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 Amendment 27

**SPECIFICATIONS**

Model	Voltage	AH 20 hr*	Constant Power Discharge Ratings - Watts Per Cell @ 77°F (25°C)								
			Operating Time (in minutes) to 1.67 Volts per Cell								
			5	10	15	20	30	40	50	60	90
UPS12-410MRXF	12	109	701.1	514.6	410.0	339.5	256.0	203.1	169.8	146.6	105.1
UPS12-1000MRXF	12	254	1520.0	1210.0	1000.	823.7	616.2	491.2	412.0	356.9	256.7

\*True 20 hr rate to 1.75 VPC in Ampere-Hours

## SPECIFICATIONS

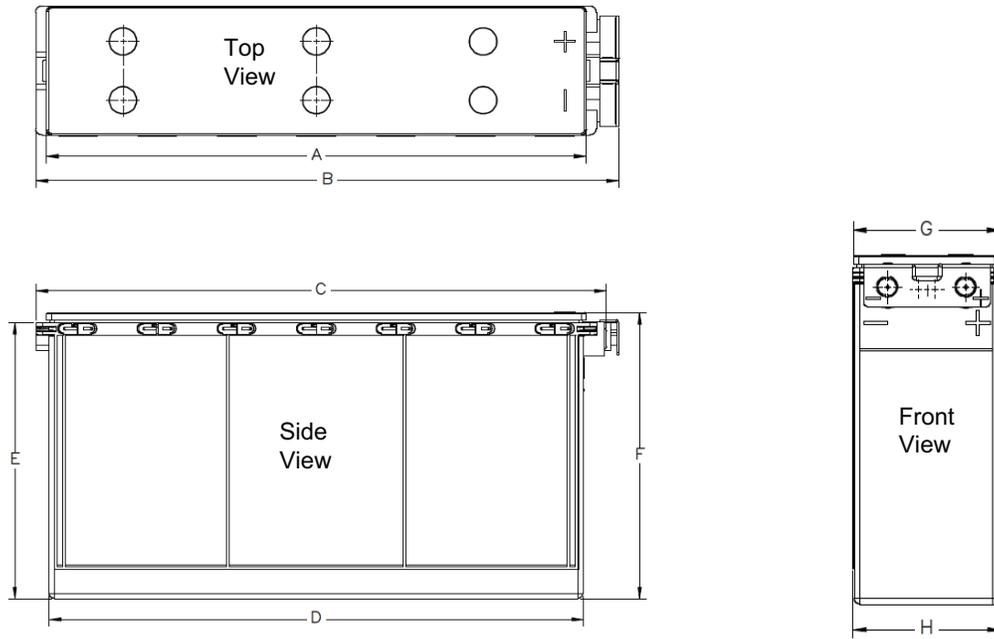
<b>Operating Temperature Range with temperature compensation</b>	Discharge: -40°F (-40°C) to +160°F (71°C) Charge: -10°F (-23°C) to +140°F (60°C)
<b>Nominal Operating Temperature Range</b>	+74°F (23°C) to +80°F (27°C)
<b>Recommended Maximum Charging Current Limit</b>	C <sub>20</sub> /5 amperes
<b>Float Charging Voltage</b>	13.5 to 13.8 VDC average per 12V unit @ 77°F (25°C)
<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>	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.
<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: M6 bolt (UPS12-410MRXF) M8 bolt (UPS12-1000MRXF)
<b>Terminal Hardware Initial Torque</b>	110 in.-lbs (12.4 N-m) for UPS12-410MRXF 160 in.-lbs. (18 N-m) for UPS12-1000MRXF

## SPECIFICATIONS

Battery Model	Nominal Voltage Per Unit	Ampere Hours Capacity 20 Hour Rate @ 77°F (25°C) to 1.75 Voltz/Cell	Ampere Hours Capacity 20 Hour Rate @ 68°F (20°C) to 1.80 Voltz/Cell	IEC Short Circuit Current (A)	IEC Resostance (m Ohms)*	Weight Lbs. (kg)
UPS12-410MRXF	12V	109	100	2860	4.4	81.8 (37.1)
UPS12-1000MRXF	12V	254	234	5540	2.3	188 (85.2)

Battery Model	Impedance (mOhms)*	Midtronics Cond. (M hos)*	Short Circuit Currect (AMPS @0.1 sec)	Maximum Terminal Discharge Currect Rating (AMPS)
UPS12-410MRXF	2.37	2000	4900	800
UPS12-1000MRXF	1.47	3700	10100	1000

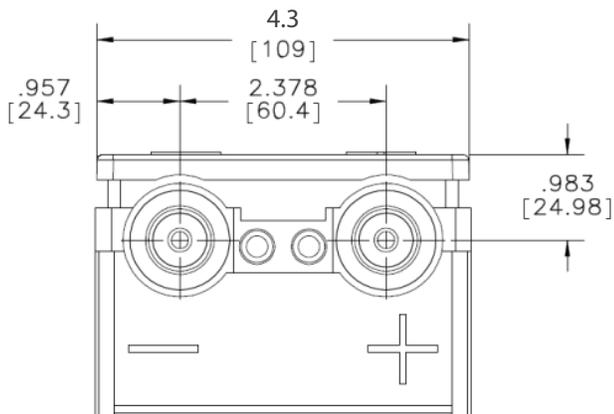
\* Per IEEE 1188-2005, Internal ohmic values are useful as a trending tool. To these reading effectively, accurate baseline readings should be taken after six months of battery operation. Internal ohmic readings taken without the benefit of baseline date may be difficult to interpret and of limited value. Values are provided for reference only.



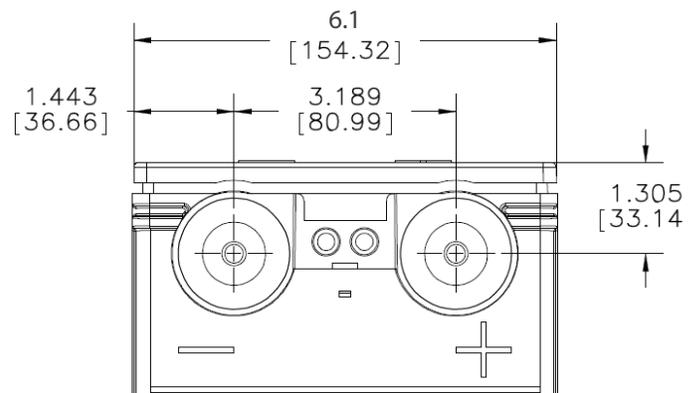
Model	A		B		C		D		E		F		G		H	
	in	mm	in	mm	in	mm										
UPS12-410MRXF	18.6	473.1	20.1	510.5	19.6	498.3	18.5	469.5	8.5	215.2	9.1	231.4	4.3	109.0	4.3	108.0
UPS12-1000MRXF	20.3	516.9	22.0	558.5	21.5	546.5	20.2	512.2	12.2	310.8	12.7	322.1	6.1	154.3	6.0	152.7

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

## DETAIL OF TERMINAL



**UPS12-410MRXF**



**UPS12-1000MRXF**

## UPS12-410MRXF

Constant Power Discharge Ratings - <i>Watts Per Cell @ 77°F (25°C)</i>										
Operating Time to End Point Voltage (in minutes)										
End Point Volts/Cell	5	10	15	20	30	40	45	50	60	90
1.75	660.1	484.4	386.0	321.2	244.0	195.3	178.3	164.3	142.7	102.4
1.70	690.8	507.0	404.0	334.4	252.0	200.5	182.6	167.9	145.3	104.2
1.67	701.1	514.6	410.0	339.5	256.0	203.1	184.6	169.8	146.6	105.1
1.65	709.7	520.8	415.0	344.1	260.0	205.7	186.9	171.6	147.9	106.0

Constant Power Discharge Ratings - <i>Amperes @ 77°F (25°C)</i>										
Operating Time to End Point Voltage (in minutes)										
End Point Volts/Cell	1	2	3	5	8	10	12	20	24	72
1.85	67	38.4	27.7	18.5	12.0	9.7	8.2	5.07	4.28	1.50
1.80	71	40.5	29.2	19.4	12.6	10.2	8.6	5.34	4.50	1.58
1.75	73	41.5	29.8	19.8	12.8	10.4	8.8	5.46	4.61	1.61

Additional ratings and application information are available in the Battery Selection Program found at [www.cdstandbypower.net](http://www.cdstandbypower.net)

## UPS12-1000MRXF

Constant Power Discharge Ratings - <i>Watts Per Cell @ 77°F (25°C)</i>										
Operating Time to End Point Voltage (in minutes)										
End Point Volts/Cell	5	10	15	20	30	40	45	50	60	90
1.75	1379.8	1098.4	907.8	763.7	589.7	472.2	431.2	397.5	345.3	250.1
1.70	1469.0	1169.4	966.4	801.7	606.1	484.4	442.0	407.1	353.2	254.7
1.67	1520.0	1210.0	1000.0	823.7	616.2	491.2	447.7	412.0	356.9	256.7
1.65	1541.9	1227.5	1014.4	834.1	622.3	495.5	451.4	415.2	359.4	257.9

Constant Power Discharge Ratings - <i>Amperes @ 77°F (25°C)</i>										
Operating Time to End Point Voltage (in minutes)										
End Point Volts/Cell	1	2	3	5	8	10	12	20	24	72
1.85	168	96.1	67.9	43.2	28.1	22.9	19.4	12.05	10.18	3.56
1.80	181	102.0	71.3	45.0	29.3	23.9	20.2	12.50	10.60	3.71
1.75	188	104.1	72.1	45.4	29.7	24.3	20.6	12.70	10.70	3.75

Note: Batteries to be mounted with 0.5 in. (1.25 cm) spacing minimum and free air ventilation. Specifications subjects to change without notification. Above ratings do not include inter-unit connector voltage drops.

Additional ratings and application information are available in the Battery Selection Program found at [www.cdstandbypower.net](http://www.cdstandbypower.net)

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