

# Milwaukee®

HIGH OUTPUT™

**50%**  
MORE POWER  
& RUNS COOLER  
vs REDLITHIUM™



# M18



**REDLITHIUM™**



**HIGH OUTPUT™**

**50% MORE POWER  
& RUNS COOLER**

vs REDLITHIUM™



High Output HD12.0  
48-11-1812



High Output XC6.0  
48-11-1865

**NEW**



High Output XC8.0  
48-11-1880  
Launch: May

**NEW**



High Output CP3.0  
48-11-1835  
Launch: April

**REDLITHIUM™**



# REDLITHIUM™

## HIGH OUTPUT™

**50%**  
**MORE POWER**  
**& RUNS COOLER**  
vs REDLITHIUM™



**HIGH OUTPUT™**  
CP



**HIGH OUTPUT™**  
XC



**HIGH OUTPUT™**  
HD



**CP**



**XC**



**HD**



**LIGHT DEMAND**

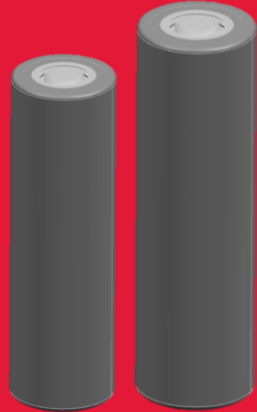
**FITS M18 TOOLS**

**HEAVY DEMAND**

# HIGH OUTPUT™ ADVANCEMENTS

## UPGRADED CELL

**REDLITHIUM™**  
18650 cell

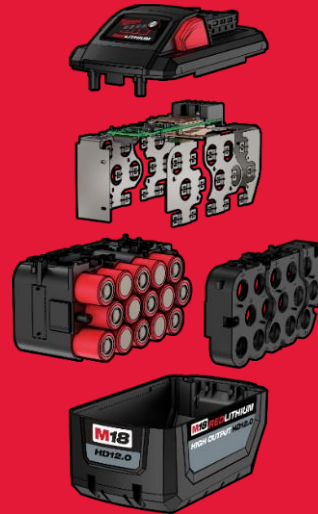


**HIGH OUTPUT™**  
21700 cell

### REDLITHIUM™ HIGH OUTPUT™ CELL

- ✓ 21700 cell has 46% more volume vs the 18650 cells developed over the last 10 years
- ✓ M18's most advanced li-ion cell, providing huge leaps in power, thermal management and run-time

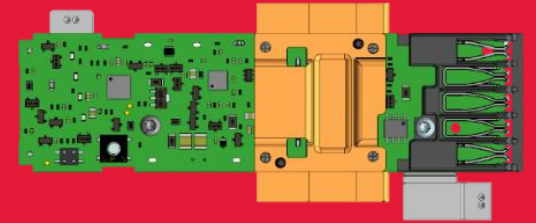
## UPGRADED PACK CONSTRUCTION



### SUPERIOR PACK CONSTRUCTION

- ✓ Advanced cell frame minimizes heat generation
- ✓ Most advanced protection against jobsite conditions

## UPGRADED ELECTRONICS



**SUPERCHARGE**  
Optimized

### REDLINK™ INTELLIGENCE

- ✓ M18's most advanced power management
- ✓ Supports full system compatibility through communication between the battery and tool
- ✓ Advanced charging components allows for faster charge rates



# HIGH OUTPUT™ PROMISE

## 50% More Power



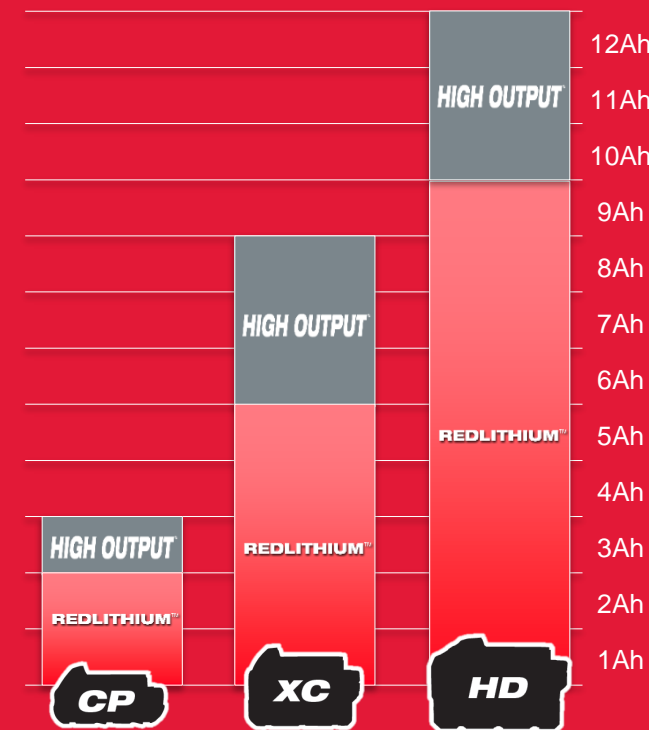
- ✓ **Faster Application Speed**
- ✓ **Increased Application Range**
- ✓ **Increased Torque**

## Runs 50% Cooler



- ✓ **Push Tools Harder For Longer**
- ✓ **More Resilient In Hot Climates**
- ✓ **Prevent Over-Temp Occurrence**

## More Runtime



- ✓ **More Work Per Charge**
- ✓ **Less Trips to the Charger**
- ✓ **Increased Productivity**

# HIGH OUTPUT™ PROMISE

## Full System Compatibility



**M18**  
PERFORMANCE DRIVEN  
TRADE FOCUSED  
SYSTEM WIDE

**COMPATIBLE WITH 175+ M18  
SOLUTIONS**

**PROTECTING END USERS  
INVESTMENT**

**ELEVATE THE PERFORMANCE  
OF ALL TOOLS SIMPLY BY  
UPGRADING THE BATTERY**



# M18™ REDLITHIUM™ HIGH OUTPUT™ CP3.0

HIGH OUTPUT™

**50%** MORE POWER  
& RUNS COOLER

VS REDLITHIUM™ CP™



XC  
POWER™  
COMPACT  
SIZE







# M18™ REDLITHIUM™ HIGH OUTPUT™ CP3.0

HIGH OUTPUT™ Performance

**50% More Power,  
Runs 50% Cooler**  
VS M18 CP2.0

**XC Power, Compact Size**

**50% More Run-time**  
VS M18 CP2.0



**M18 FUEL Hammer Drill**  
Largest Usable Bit In Speed 2



**HIGH OUTPUT CP3.0**  
**2-9/16" Self-feed**



**CP2.0**  
**2" Self-feed**



✓ **Users can run harder and longer on higher draw tools**



**50% More Power,  
Runs 50% Cooler**  
VS M18 CP2.0

**XC Power, Compact Size**

**50% More Run-time**  
VS M18 CP2.0



**M18 FUEL Sawzall**  
Cross Cut Speed in 2x12



**HIGH OUTPUT CP3.0**  
**10.1 Seconds**



**XC3.0**  
**10.2 Seconds**



- ✓ **15% Lighter**
- ✓ **Keep the performance,  
lose the fatigue**



# M18™ REDLITHIUM™ HIGH OUTPUT™ CP3.0

50% More Run-Time

50% More Power,  
Runs 50% Cooler  
VS M18 CP2.0

XC Power, Compact Size

50% More Run-time  
VS M18 CP2.0



Application Test: M18 FUEL Hammer Drill with 1" Auger Bit



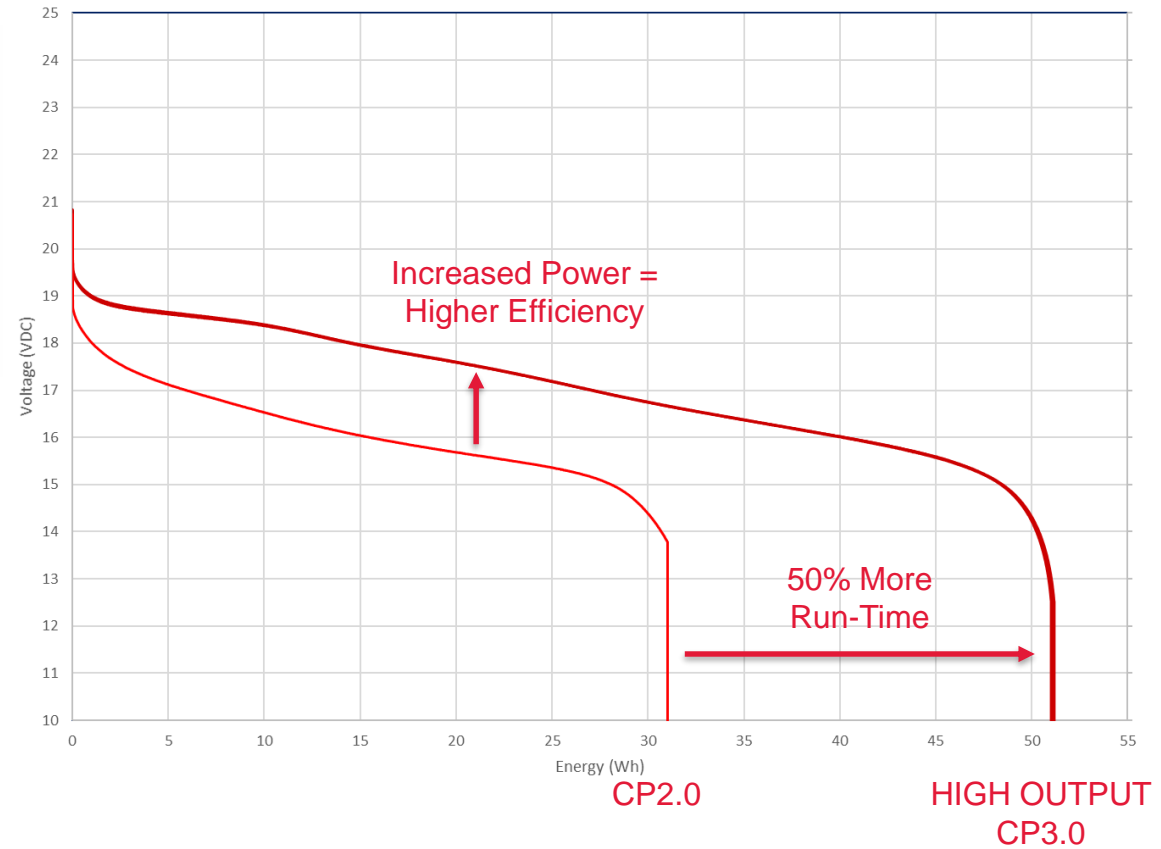
**150**

1" Holes into Pine



**80**

1" Holes into Pine



- Watt hours (Wh) are the unit of measurement that defines the total amount of energy a pack can provide





M18

# M18™ REDLITHIUM™ HIGH OUTPUT™ CP3.0

One Slider

**LAUNCH: APRIL 2019**

**HIGH OUTPUT PERFORMANCE**

HIGH OUTPUT™

**50%**

**MORE POWER & RUNS COOLER**

vs REDLITHIUM™

**MORE COMPACT**



**XC POWER. COMPACT SIZE.**

**RUN-TIME**

**50%**

**MORE RUN-TIME**

**vs CP2.0**

- **50% MORE POWER & RUNS 50% COOLER**
  - Provides 50% more power & runs 50% cooler vs M18 REDLITHIUM™ CP
  - HIGH OUTPUT™ 21700 cells and advanced REDLINK™ electronics provide ground breaking power output, pushing tools harder through tough applications
  - Temperature control cell frame minimizes heat generation, so users can run harder and longer
  
- **XC POWER, COMPACT SIZE**
  - Same power & run-time vs M18 REDLITHIUM™ XC3.0
  - 15% Lighter vs M18 REDLITHIUM™ XC3.0
  - Reduces user fatigue and allows users to work in tighter spaces without sacrificing performance
  
- **50% MORE RUN-TIME**
  - 50% more run-time vs CP2.0
  - Matches the run-time of a XC3.0
  
- **FULL M18 SYSTEM COMPATIBILITY**
  - Fully compatible with 175+ M18 solutions



ITEM #	DESCRIPTION	UPC	iMAP
48-11-1835	M18 REDLITHIUM HIGH OUTPUT CP3.0 BATTERY	045242546831	\$99.00
48-11-1837	M18 REDLITHIUM HIGH OUTPUT CP3.0 BATTERY 2-PACK	045242541355	\$149.00
48-59-1835	M18 REDLITHIUM HIGH OUTPUT CP3.0 STARTER KIT	045242544325	\$139.00

# M18™ REDLITHIUM™ HIGH OUTPUT™ XC8.0



**HIGH OUTPUT™**

**50%**  
**MORE POWER**  
**& RUNS COOLER**  
vs REDLITHIUM™





# M18™ REDLITHIUM™ HIGH OUTPUT™ XC8.0 HIGH OUTPUT™ Performance

**50% More Power,  
Runs 50% Cooler**  
VS M18 XC5.0

**60% More Run-Time**  
VS M18 XC5.0

**SUPERCHARGE Optimized**



**M18 FUEL 7-1/4" Circ Saw**  
Cut Speed in Double Stacked Plywood



**HIGH OUTPUT XC8.0**  
**2.5 Seconds**



**XC5.0**  
**3.3 Seconds**



✓ **Users can work harder and longer without shutting down**



# M18™ REDLITHIUM™ HIGH OUTPUT™ XC8.0

60% More Run-Time

50% More Power,  
Runs 50% Cooler  
VS M18 XC5.0

60% More Run-Time  
VS M18 XC5.0

SUPERCHARGE Optimized



Application Test: M18 FUEL Deep Cut Band Saw in 1-5/8" Strut



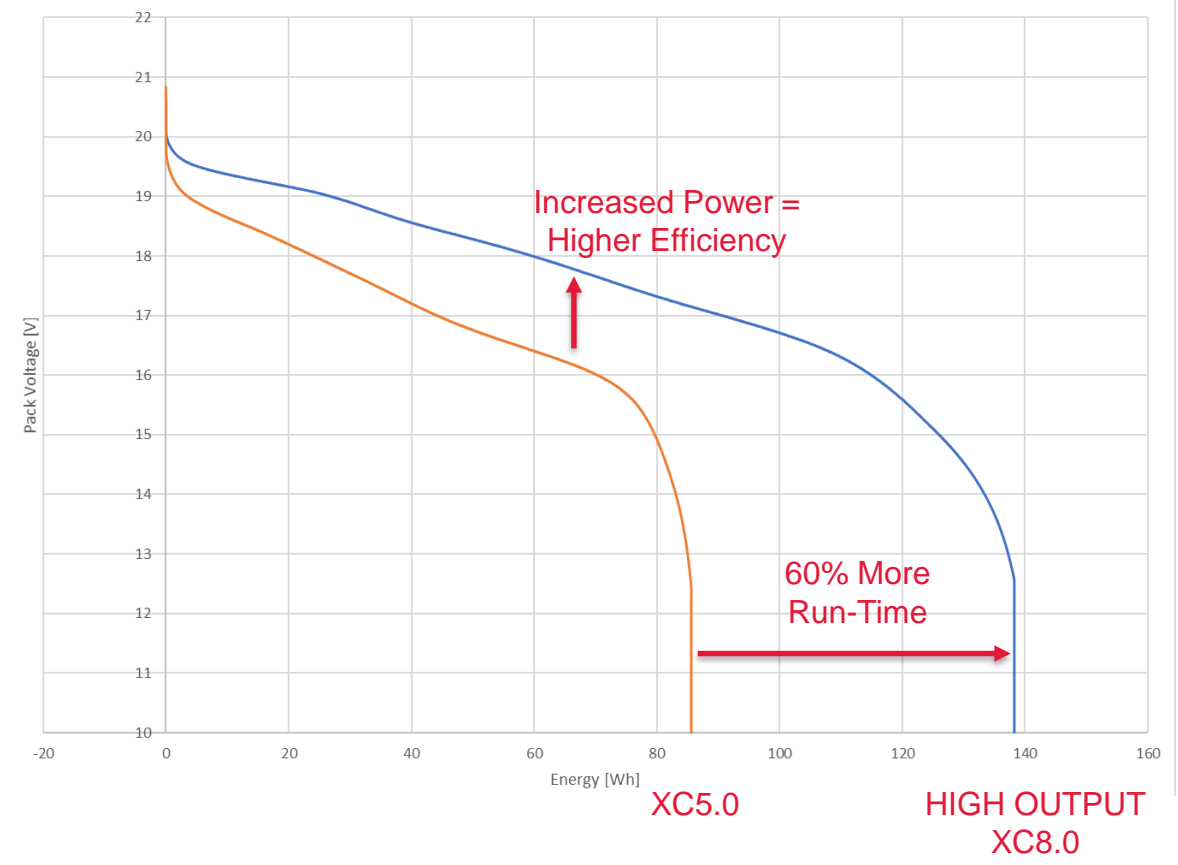
19

Cuts in 1-5/8" Strut



11

Cuts in 1-5/8" Strut



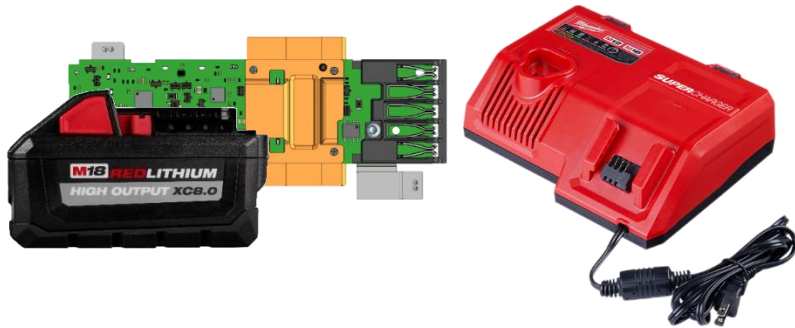
- Watt hours (Wh) are the unit of measurement that defines the total amount of energy a pack can provide



**50% More Power,  
Runs 50% Cooler**  
VS M18 HD9.0

**60% More Run-Time**  
VS M18 XC5.0

**SUPERCHARGE Optimized**



- ✓ Advanced HIGH OUTPUT XC charging components allows for faster XC8.0 charge rates
- ✓ Even with 1 fewer Ah vs the HD9.0, the XC8.0 is able to maximize productivity by minimizing it's charge time

	HIGH OUTPUT XC8.0	HD9.0
<b>Power</b>	<b>Equal Power</b>	<b>Equal Power</b>
<b>Run-Time</b>	<b>8Ah</b>	<b>9Ah</b>
<b>Size</b>	<b>More Compact</b>	-
<b>Charge Time</b>	<b>45 min</b>	<b>100 min</b>
	SUPERCHARGE Optimized	RAPIDCHARGER®



**M18**

# M18™ REDLITHIUM™ HIGH OUTPUT™ XC8.0

One Slider

**LAUNCH: MAY 2019**

**HIGH OUTPUT PERFORMANCE**

**HIGH OUTPUT™**

**50%**

**MORE POWER & RUNS COOLER**

vs REDLITHIUM™

**RUN-TIME**

**60%**

**MORE RUN-TIME**

**vs XC5.0**

**SUPERCHARGE OPTIMIZED**

CHARGES UP TO

**3X FASTER**

- **50% MORE POWER & RUNS 50% COOLER**
  - Provides 50% more power & runs 50% cooler vs M18 REDLITHIUM™ XC
  - HIGH OUTPUT™ 21700 cells and advanced REDLINK™ electronics provide ground breaking power output, pushing tools harder through tough applications
  - Temperature control cell frame minimizes heat generation, so users can run harder and longer
  
- **60% LONGER RUNTIME**
  - Provides 60% more run-time vs M18 REDLITHIUM XC5.0 battery
  - More work delivered vs (2) M18 REDLITHIUM XC4.0 battery packs due to increased power
  
- **SUPERCHARGE Optimized**
  - Upgraded REDLINK™ electronics maximizes charging performance, allowing 3X faster charging when paired with M18™ and M12™ Super Charger
  - Full Charge in 45 min
  
- **FULL M18 SYSTEM COMPATIBILITY**
  - Fully compatible with 175+ M18 solutions



ITEM #	DESCRIPTION	UPC	iMAP
48-11-1880	M18 REDLITHIUM HIGH OUTPUT XC8.0 BATTERY PACK	045242519231	\$199
48-59-1880	M18 REDLITHIUM HIGH OUTPUT XC8.0 STARTER KIT	045242541348	\$249



# M18™ & M12™ SUPER CHARGER



CHARGES UP TO  
**4X** FASTER

Optimized for  
**HIGH OUTPUT**<sup>™</sup>  
Batteries

CHARGES ALL  
**M18** **M12**  
BATTERIES

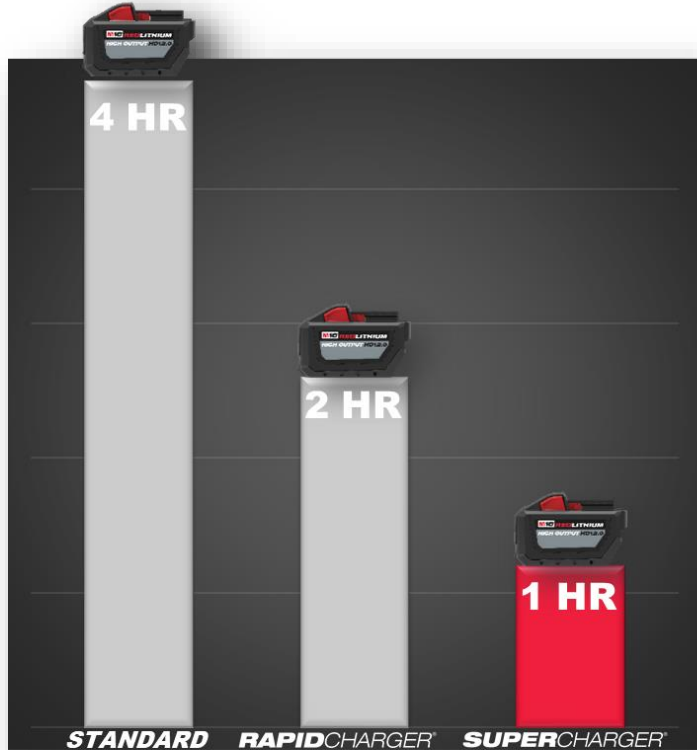


**Charges Up To 4X Faster**  
VS M18 Standard Charger

**Optimized For  
HIGH OUTPUT**

**Charges All M18 & M12  
Batteries**

**4X FASTER**



**Time to Fully Charge HD12.0 Battery**

**8 HR WORK DAY**



**STANDARD**

**Two HD12.0 = 24Ah**



**SUPERCHARGER**

**Eight HD12.0 = 96Ah**

**4X the Productivity!**

**WORK IN 15 MIN**



**HIGH OUTPUT XC**  
15 Min = 2.9 Ah



**HIGH OUTPUT HD**  
15 Min = 3.2 Ah



**A 15 min charge is enough to complete 200 cuts in 2x4!**

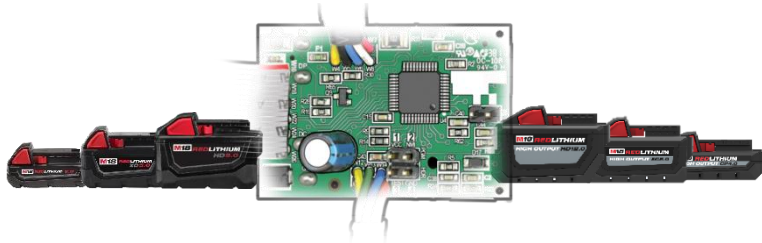


**Charges Up To 4X Faster**  
VS M18 Standard Charger

**Optimized For  
HIGH OUTPUT**

**Charges All M18 & M12  
Batteries**

## REDLINK™ Intelligence



- ✓ Every Milwaukee battery is pre-programmed with a unique charge profile
- ✓ The Super Charger's advanced intelligence optimizes the charge rate based on the pack type and temperature, providing the best combination of charge time and pack life
- ✓ HIGH OUTPUT XC & HD cells and electronics are upgraded to benefit from faster charge rates



**Charges all  
HIGH OUTPUT Batteries in  
1 HOUR OR LESS**



**HD12.0**  
60 MIN



**XC8.0**  
45 MIN



**XC6.0**  
35 MIN



**CP3.0**  
35 MIN



# M18™ & M12™ SUPER CHARGER

Charges All M18 & M12 Batteries

**Charges Up To 4X Faster**  
VS M18 Standard Charger

**Optimized For  
HIGH OUTPUT**

**Charges All M18 & M12  
Batteries**



CHARGES ALL  
**M18 M12**  
BATTERIES™

Optimized for  
**HIGH OUTPUT™**  
Batteries

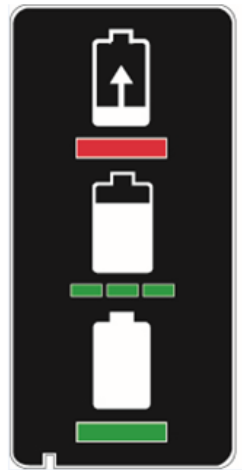


M18™ HD12.0	M18™ XC8.0	M18™ XC6.0	M18™ CP3.0	M18™ HD9.0	M18™ XC5.0	M18™ CP2.0	M12™ XC3.0	M12™ CP2.0
<b>60 min</b>	<b>45 min</b>	<b>35 min</b>	<b>35 min</b>	<b>103 min</b>	<b>60 min</b>	<b>25 min</b>	<b>46 min</b>	<b>30 min</b>
130 min	83 min	64 min	35 min	103 min	60 min	25 min	46 min	30 min
241 min	153 min	119 min	65 min	184 min	105 min	42 min	55 min	43 min

\*Estimated charge durations based on testing conducted by Milwaukee Tool at room temperature. Actual results may vary.



## 80% Charge Indicator



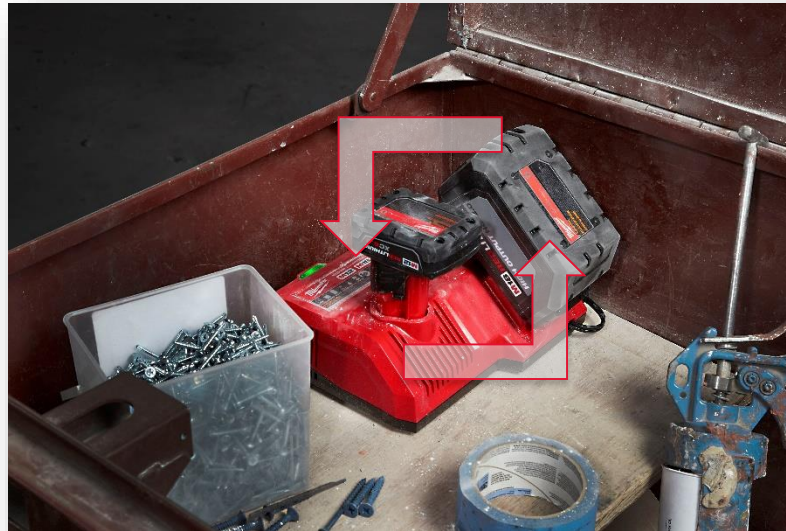
Charging

80% Charged

100% Charged

- LED indicator flashes green when the battery is ~80% charged
- Gives the user confidence they can remove the battery if in a rush, and still complete a substantial amount of work

## Sequential Charging



- Automatically charges the 2nd inserted pack once the 1st pack is fully charged
- User can put both batteries on, and come back to two full packs, minimizing trips to the charger

## Wall Hanging



- Allows the user to easily mount the charger to any secure wall
- Versatile mounting and storage to fit in any environment



# Charger + Battery = Productivity

**M18 & M12  
SUPER CHARGER**  
(13.5A Max Charge Rate)



**M18 REDLITHIUM  
HIGH OUTPUT HD12.0**  
(12Ah)



+

=



**1 HOUR  
CHARGE**

## MILWAUKEE ADVANTAGE

- ✓ 2X Faster Charge vs DeWalt
- ✓ 2X Battery Capacity vs Makita
- ✓ Charges 12V & 18V
- ✓ 5 Year Charger Warranty

**DEWALT FAN COOLED  
FAST CHARGER**  
(8A Max Charge Rate)



+

**DEWALT FLEXVOLT 12Ah**  
(12Ah at 20V\* / 4Ah at 60V\*)



=

**120 MIN  
CHARGE TIME**

- 2x Longer Time To Charge
- Incompatible With 12V
- 3 Year Charger Warranty

**MAKITA LXT RAPID  
OPTIMUM CHARGER**  
(9A Max Charge Rate)



+

**MAKITA LXT 6Ah**  
(6Ah )



=

**56 MIN  
CHARGE TIME**

- Half The Battery Capacity in the Same Amount of Time
- Incompatible With 12V
- 3 Year Charger Warranty



**LAUNCH: JULY 2019**

**SUPERCHARGE**

CHARGES UP TO  
**4X**  
FASTER

**HIGH OUTPUT OPTIMIZED**



**1 HOUR**  
CHARGE

**COMPATIBILITY**

CHARGES ALL  
**M18 M12**  
BATTERIES™

- **CHARGES UP TO 4X FASTER**
  - Charges REDLITHIUM™ HIGH OUTPUT™ batteries up to 4X faster vs standard charger
  - Charges REDLITHIUM™ batteries up to 40% faster vs. standard charger
  
- **OPTIMIZED FOR HIGH OUTPUT**
  - Charges the HIGH OUTPUT™ HD12.0 in 1 hour
  - Charges the HIGH OUTPUT™ XC8.0 in 45 min
  - Charges the HIGH OUTPUT™ XC6.0 in 35 min
  
- **CHARGES ALL M18 & M12 BATTERIES**
  - Full M18 & M12 battery compatibility
  - REDLINK Intelligence™ optimizes the charge rate for each battery to minimize charge time



ITEM #	DESCRIPTION	UPC	iMAP
48-59-1811	M18 & M12 Super Charger	045242536450	\$159.00

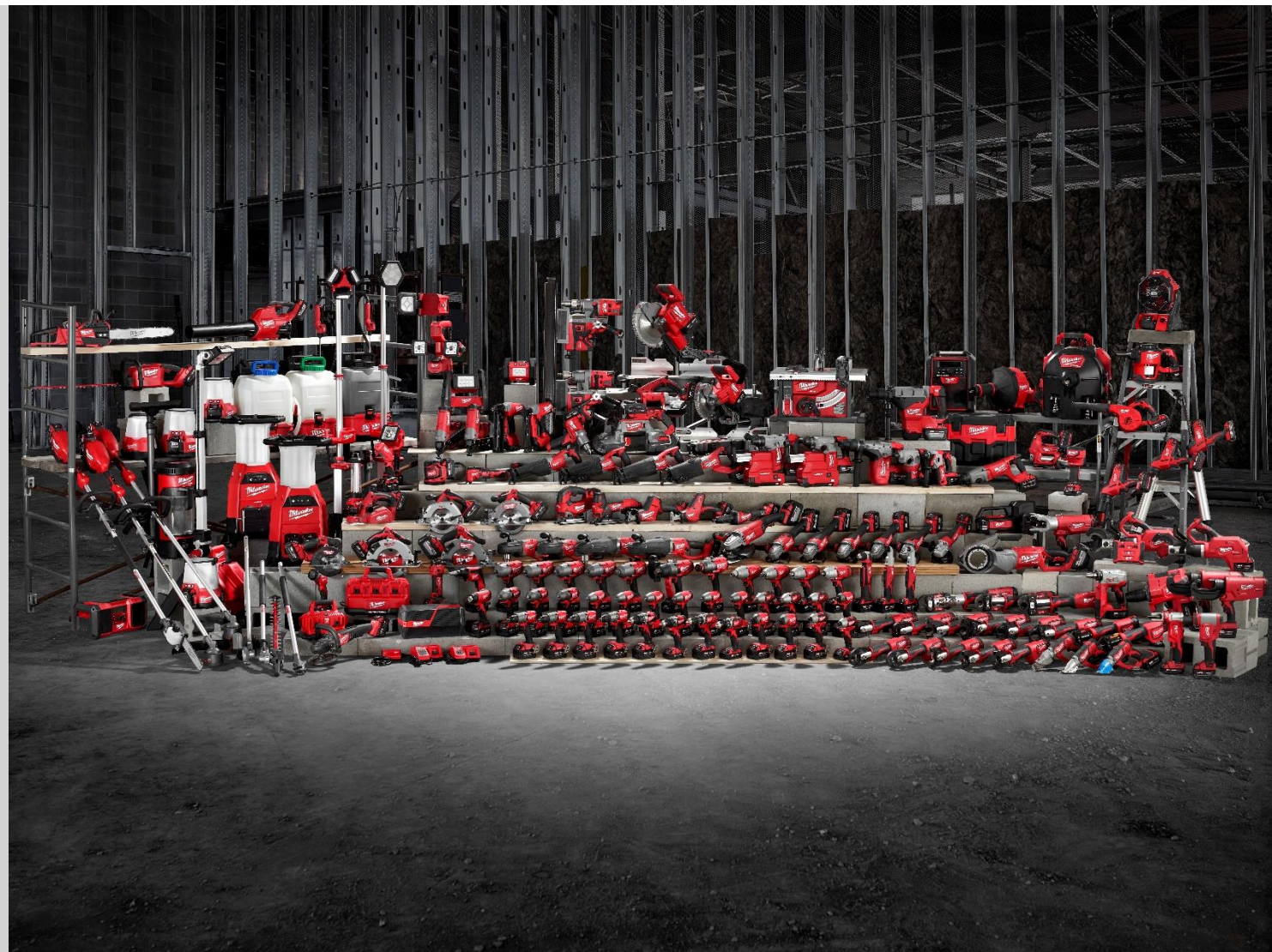


**FULLY COMPATIBLE WITH 175+ M18™ SOLUTIONS**

**M18**

™

**FITS M18™ TOOLS™**







# M18™ & M12™ CHARGING SOLUTIONS





# M18™ & M12™ CHARGING SOLUTIONS

FEATURES	<b>SUPER</b> CHARGES UP TO 4X FASTER	<b>RAPID</b>		STANDARD								
	 M18™ and M12™ Super Charger 48-59-1811	 M18™ and M12™ Rapid Charger 48-59-1808	 M18™ and M12™ Rapid Charge Station 48-59-1807	 M18™ and M12™ Multi-Voltage Charger 48-59-1812	 M18™ and M12™ Vehicle Charger 48-59-1810	 M18™ Six Pack Sequential Charger 48-59-1806	 M12™ Charger 48-59-2401	 M12™ Compact Charger and Power Source 48-59-1201	 M12™ Four Bay Sequential Charger 48-59-1204	 M18™ ROCKET™ Tower Light/Charger 2135	 M18™ RADIUS™ Site Light/Charger w/ ONE-KEY™ 2150	 M18™ Jobsite Radio/Charger 2792
M18™ Ports	1	1	3	1	1	6				1	2	1
M12™ Ports	1	1	3	1	1		1	1	4			
Charge Type	Sequential	Sequential	3 Packs Simultaneous	Sequential	Sequential	Sequential	Single	Single	Sequential	Single	Sequential	Single
Power Source	AC	AC	AC	AC	DC	AC	AC	AC or USB	AC	AC	AC	AC
Carry Handle			✓			✓				✓	✓	✓
Integrated Into Tool										✓	✓	✓
Wall Mountable	✓	✓	✓	✓	✓	✓	✓		✓			
Pass Through Plug			✓			✓						



**NEW**



M18 REDLITHIUM HIGH OUTPUT  
CP3.0 Battery  
48-11-1835

**NEW**



M18 REDLITHIUM HIGH OUTPUT  
XC8.0 Battery  
48-11-1880

**NEW**



M18 & M12 Super Charger  
48-59-1811

**NEW**



M18 REDLITHIUM HIGH OUTPUT  
CP3.0 Battery 2-Pack  
48-11-1837

**NEW**



M18 REDLITHIUM HIGH OUTPUT  
XC8.0 Starter Kit  
48-59-1880

**NEW**



M18 REDLITHIUM HIGH OUTPUT  
CP3.0 Starter Kit  
48-59-1835

### CP

**NEW**



#### High Output CP3.0

1-pack: 48-11-1835  
2-pack: 48-11-1837  
Starter Kit: 48-59-1835



#### CP2.0

1-pack: 48-11-1820



#### CP1.5

1-pack: 48-11-1815  
2-pack: 48-11-1811

### XC

**NEW**



#### High Output XC6.0

1-pack: 48-11-1865  
2-pack: 48-11-1862



#### XC5.0

1-pack: 48-11-1850  
2-pack: 48-11-1852  
10-pack: 48-11-1851  
Starter Kit: 48-59-1850



#### XC6.0

1-pack: 48-11-1860



#### High Output XC8.0

1-pack: 48-11-1880  
Starter Kit: 48-59-1880



#### XC3.0

1-pack: 48-11-1828  
2-pack: 48-11-1822  
Starter Kit: 48-59-1813



#### XC4.0

1-pack: 48-11-1840

### HD



#### High Output HD12.0

1-pack: 48-11-1812  
Starter Kit: 48-59-1200



#### HD9.0

1-pack: 48-11-1890  
Starter Kit: 48-59-1890





**BATTERY**  
**2**  
**YEAR**

**WARRANTY**

**BATTERY**  
**3**  
**YEAR**

**WARRANTY**

**CHARGER**  
**5**  
**YEAR**

**WARRANTY**

- Due to the upgraded cells and pack construction, HIGH OUTPUT Batteries are a slightly wider than their REDLITHIUM counterparts
- All belt hooks produced since 2018 were widened to accommodate HIGH OUTPUT
- Non One-Key belt clips produced prior to 2018 may result in a tight fit, requiring users to bend or remove the clip when upgrading to HIGH OUTPUT
- Belt clip upgrades can be requested through our global customer service team and factory service centers (part # 42-70-5151)



Pre-2018 Belt Clip with CP2.0



Pre-2018 Belt Clip



Post-2018 Belt Clip  
(# 42-70-5151)

Products	Where The Upgrade Can Be Performed			
	eService	Factory Service Center	Authorized Service Center	End User can perform Upgrade
Non One-Key Belt Clips produced prior to 2018	Y	Y		Y



### REDLITHIUM™ HIGH OUTPUT™

- ✓ Gray stripes create visual segmentation
- ✓ Call-out focuses on increase in power and running cooler vs REDLITHIUM



### REDLITHIUM™

- ✓ Updated artwork to improve customer shopping experience
- ✓ Call-out focuses on increase in run-time and CP to HD step up in power

