



MOTOTRBO™ GENUINE BATTERIES

DISCOVER THE ADVANTAGES AND BENEFITS OF
USING MOTOROLA SOLUTIONS GENUINE BATTERIES



WHEN IT COMES TO MISSION-CRITICAL SITUATIONS, YOUR RADIO IS ONLY AS RELIABLE AS THE BATTERY THAT POWERS IT



BY CHOOSING THE RIGHT BATTERY AND CHARGER TO PAIR WITH YOUR RADIO, YOU CAN PROVIDE A COMPLETE, CUSTOMISED SOLUTION THAT EVERYONE CAN RELY ON.

With genuine batteries you can get more charging cycles, improved IP ratings, and hazardous environment certification.

With over 90 years of radio manufacturing experience, millions of devices worldwide, teams of trained engineers, and ISO-certified facilities, we are able to offer the best energy technology in the radio market.

In this brochure, you will find out the benefits and advantages of using genuine Motorola Solutions batteries.



WHAT MAKES GENUINE BATTERIES DIFFERENT?

EXCEPTIONAL ENGINEERING



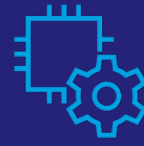
RELIABILITY YOU CAN TRUST

Motorola Solutions original batteries are proven tough for reliability and performance.



QUALITY IN EVERY PART

Motorola Solutions radios feature heavy duty casings, sturdy internal circuitry, engineered shock absorbing materials and premium quality cells.



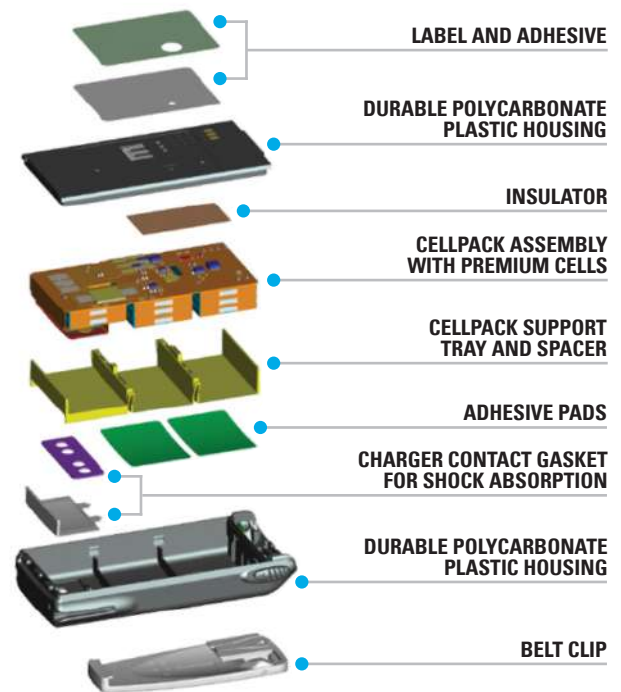
DESIGNED TO COMPLY

In addition to Motorola Solutions' exceptional design, all our batteries and chargers are tested with our radios as a complete system to ensure they comply with all the relevant regulatory standards.

PROVEN TOUGH THE ANATOMY OF OUR TOUGH BATTERIES

MOTOROLA SOLUTIONS BATTERIES ARE BUILT WITH THE MOST DEMANDING STANDARD IN MIND

- Our main driving factors when designing batteries are longevity, reliability, and resilience.
- Our batteries should stand up to whatever you need to put them through.
- Water, dust, and even explosive environments are all designed for and tested against.
- Each battery we design is put through Motorola's accelerated life testing to ensure it will reliably deliver the longest possible service life.
- Our batteries contain engineered materials that specifically keep batteries working through drops, knocks, and shocks.



PERFORMANCE TESTED HOW WE TEST GENUINE BATTERIES



DROPS



ELECTRICAL SHOCKS



VIBRATION



TEMPERATURE



FLAME



WATER / SAND / DUST



ATTACHMENT

TYPES OF BATTERY & FEATURES

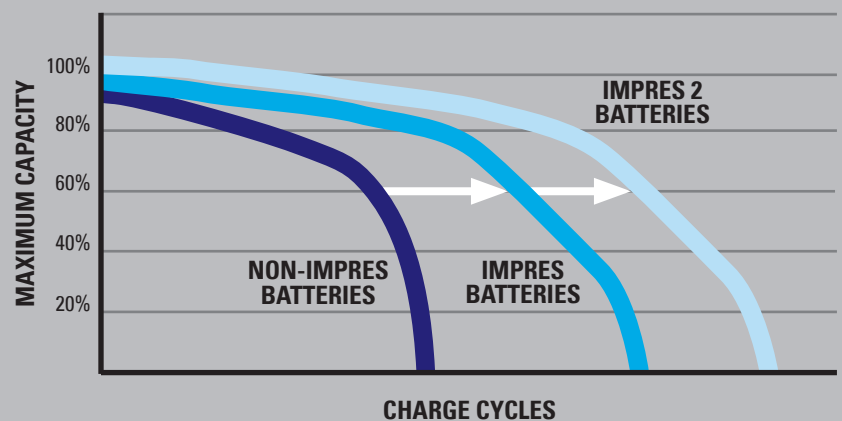
UNDERSTANDING THE DIFFERENT CLASSES OF MOTOTRBO BATTERY

	STANDARD HIGH PERFORMANCE FOR EVERY DAY RADIO USERS	IMPRES™ FOR DEMANDING RADIO USERS	IMPRES 2™ LONG-LASTING BATTERIES FOR HIGH-END DEVICES
Warranty (Capacity)	12 Months	18 Months	24 Months
Warranty (Workmanship)	24 Months	24 Months	48 Months
Charge Cycles	300-500	430-700	480-800
UL TIA4950 Models Available	No	Yes	Yes
ATEX Models Available	No	Yes	No
Max IP Rating Available	IP68	IP68	IP68

IMPRES™ TECHNOLOGY

As batteries age, they will hold less and less charge, which can be a big problem if shifts are long and batteries come back depleted. Motorola Solutions' innovative IMPRES battery charging and reconditioning system streamlines and automates battery maintenance using intelligent batteries and chargers. IMPRES radio batteries and chargers communicate with each other to help lengthen battery life by up to 43%*, reducing costs over the lifetime of the system as fewer battery replacements will be required. IMPRES 2 improves performance even further with a 60% increase over standard batteries.

IMPRES BATTERIES HAVE A LONGER LIFE



IMPRES FLEET MANAGEMENT

Eliminate the guesswork in managing batteries across your radio fleet with IMPRES Fleet Management. This software application allows you to remotely monitor and analyse the status of batteries to maximise performance and minimise replacement costs.

The IMPRES Battery Fleet Management application software is scalable from a single site to a multi-site system and can be networked to support up to 25,000 batteries in the same location or over geographically dispersed areas. IMPRES Fleet Management software gives you the power to create detailed reports about your entire battery fleet, including performance levels of your batteries, lost battery reports, and even notifications when a battery is nearing the end of its life.

Our latest multi-unit chargers are ready to connect directly to the IMPRES Fleet Management software simply by connecting to your PC through a USB cable.

FEATURES OF BATTERY

MOISTURE

Wet environments will always pose a risk to most electronics, whether it is rain during outside use, steam in production environments, or high humidity environments such as swimming pools. Within our wide portfolio, Motorola Solutions offers batteries with IP ratings suitable for any environment, including total submersion in water.









IP (INGRESS PROTECTION) RATINGS GUIDE

SOLIDS

-  Protected against a solid object greater than 50 mm such as a hand.
-  Protected against a solid object greater than 12.5 mm such as a finger.
-  Protected against a solid object greater than 2.5 mm such as a screwdriver.
-  Protected against a solid object greater than 1 mm such as a wire.
-  Dust Protected. Limited ingress of dust permitted. Will not interfere with operation of the equipment. Two to eight hours.
-  Dust tight. No ingress of dust. Two to eight hours.

IP 67
RATING EXAMPLE

WATER

-  Protected against vertically falling drops of water. Limited ingress protected.
-  Protected against vertically falling drops of water with enclosure tilted up to 15 degrees from the vertical. Limited ingress permitted.
-  Protected against sprays of water up to 60 degrees from the vertical. Limited ingress permitted for three minutes.
-  Protected against water splashed from all directions. Limited ingress permitted.
-  Protected against jets of water. Limited ingress permitted.
-  Water from heavy seas or water projected in powerful jets shall not enter the enclosure in harmful quantities.
-  Protection against the effects of immersion in water between 15 cm and 1 m for 30 minutes.
-  Protection against the effects of immersion in water under pressure for long periods. Manufacturers must state the test criteria used.



COMPATIBLE BATTERY DETECTION

Our compatibility warning feature ensures that your team is using genuine batteries to get the best performance from their radio. If a third-party battery is connected to your MOTOTRBO radio, a tone will sound and an alert will be shown on the screen*.

By warning users that they are using a non-genuine battery they are aware that the performance of the radio may be negatively impacted. Some impacts of non-genuine batteries are accidental battery disconnections, decreased battery life, and a reduced number of charges before replacement.















HAZLOC BATTERY MISMATCH ALERT

When your team is working in hazardous environments you want to be sure their battery and radio are correctly matched. With Battery Mismatch Alerts, users are warned if they connect the wrong battery. This keeps workers safe from when working in areas that require UL TIA-4950 or ATEX certifications.

During power-up, the radio detects the attached battery. If the battery is not of the correct type, the radio will sound an alert and can even play a voice announcement (if configured).















BATTERY COMPATIBILITY

DP1400 / DP2000e SERIES / DP3000e SERIES

RADIO FAMILY		DESCRIPTION	TYPICAL CAPACITY (mAh)	IMPRES	IP RATING	CHEMISTRY	CE APPROVED	INTRINSIC SAFETY	MIN TEMPERATURE (°C)
DP1400									
PMNN4251		1400mAh NiMH Battery	1400	No	IP54	NiMH	Yes	No	-20
PMNN4253		1600mAh Li-Ion Battery	1600	No	IP54	Li-Ion	Yes	No	-10
PMNN4259		2075mAh Li-Ion Battery	2075	No	IP54	Li-Ion	Yes	No	-10
PMNN4254		2300mAh Li-Ion Battery	2300	No	IP54	Li-Ion	Yes	No	-10
PMNN4258		2900mAh Li-Ion Battery	2900	No	IP54	Li-Ion	Yes	No	-10
DP2000e SERIES									
PMNN4412		IP68 1400mAh Li-Ion Battery	1400	No	IP68	NiMH	Yes	No	-20
PMNN4525		IMPRES IP68 1950mAh Li-Ion Battery	1950	Yes	IP68	Li-Ion	Yes	No	-30
PMNN4491		IMPRES IP68 2100mAh Li-Ion Battery	2100	Yes	IP68	Li-Ion	Yes	No	-10
PMNN4544		IMPRES IP68 2450mAh Li-Ion Battery	2450	Yes	IP68	Li-Ion	Yes	No	-10
PMNN4490		IMPRES IP68 2900mAh Li-Ion Battery	2900	Yes	IP68	Li-Ion	Yes	UL TIA4950	-10
PMNN4488		IMPRES IP67 3000mAh Li-Ion Battery	3000	Yes	IP67	Li-Ion	Yes	No	-10
DP3000e SERIES									
PMNN4440		IP68 1700mAh Li-Ion Battery	1700	No	IP68	Li-Ion	Yes	No	-10
PMNN4511		IMPRES IP68 2900mAh Li-Ion Battery	2900	Yes	IP68	Li-Ion	Yes	UL TIA4950	-20
PMNN4502		IMPRES IP67 3000mAh Li-Ion Battery	3000	Yes	IP67	Li-Ion	Yes	No	-10

BATTERY COMPATIBILITY

DP4000e SERIES / DP4000 Ex SERIES / MOTOTRBO ION /SL SERIES

RADIO FAMILY	DESCRIPTION	TYPICAL CAPACITY (mAh)	IMPRES	IP RATING	CHEMISTRY	CE APPROVED	INTRINSIC SAFETY	MIN TEMPERATURE (°C)	
DP4000e SERIES									
PMNN4412	 IP68 1400mAh Li-Ion Battery	1400	No	IP68	NiMH	Yes	No	-20	
PMNN4525	 IMPRES IP68 1950mAh Li-Ion Battery	1950	Yes	IP68	Li-Ion	Yes	No	-30	
PMNN4491	 IMPRES IP68 2100mAh Li-Ion Battery	2100	Yes	IP68	Li-Ion	Yes	No	-10	
PMNN4544	 IMPRES IP68 2450mAh Li-Ion Battery	2450	Yes	IP68	Li-Ion	Yes	No	-10	
PMNN4489	 IMPRES IP68 2900mAh Li-Ion Battery	2900	Yes	IP68	Li-Ion	Yes	UL TIA4950	-10	
PMNN4488	 IMPRES IP67 3000mAh Li-Ion Battery	3000	Yes	IP67	Li-Ion	Yes	No	-10	
DP4000 Ex SERIES									
NNTN8840	 IMPRES ATEX IP67 2000mAh Li-Ion Battery	2000	Yes	IP67	Li-Ion	Yes	ATEX MA	-10	
NNTN8359	 IMPRES ATEX IP67 2075mAh Li-Ion Battery	2075	Yes	IP67	Li-Ion	Yes	ATEX	-10	
MOTOTRBO ION									
PMNN4803	 IMPRES 2 IP68 2820mAh Li-Ion Battery	2820	IMPRES 2	IP68	Li-Ion	Yes	No	-20	
PMNN4804	 IMPRES 2 TIA IP68 2900mAh Li-Ion Battery	2900	IMPRES 2	IP68	Li-Ion	Yes	UL TIA4950	-20	
PMNN4805	 IMPRES 2 UL TIA4950 IP68 4400mAh Li-Ion Battery	4400	IMPRES 2	IP68	Li-Ion	Yes	UL TIA4950	-20	
SL1000 SERIES									
PMNN4468	 2300mAh Li-Ion Battery	2300	No	IP54	Li-Ion	Yes	No	-20	
SL2000 SERIES									
PMNN4468	 2300mAh Li-Ion Battery	2300	No	IP54	Li-Ion	Yes	No	-20	
SL4000e SERIES									
PMNN4468	 2300mAh Li-Ion Battery	2300	No	IP54	Li-Ion	Yes	No	-20	



To learn more about MOTOTRBO,
visit www.motorolasolutions.com/MOTOTRBO

* Models with screens only. Feature not compatible with DP540, DP1400, or SL Series radios.

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