

# IMPRES™ Smart Energy System



Unique Battery Charging and Reconditioning Solution

Motorola's IMPRES Smart Energy System is a unique battery charging and reconditioning solution that automates battery maintenance, optimizes cycle life and helps maximize talk time so your radio system will be charged and ready to go... whenever you need it.

## Automates battery maintenance...

With IMPRES, manual battery maintenance is not required. IMPRES uses a unique communications protocol to facilitate adaptive reconditioning that diminishes memory effect that results when batteries are continually charged before they're fully discharged. The IMPRES Smart Energy System adjusts the reconditioning frequency to match individual battery usage patterns. No longer will you have to manually track and record battery usage. With automatic and adaptive reconditioning, you eliminate guesswork and the time wasted reconditioning batteries prematurely.

IMPRES chargers can also charge compatible non-IMPRES Motorola batteries. However, automatic reconditioning and all other IMPRES features are realized only when using Motorola IMPRES batteries and chargers.

## Optimizes cycle life...

An IMPRES battery may be left in an IMPRES charger for extended periods without heat damage due to the charger. This makes IMPRES ideal for applications that require equipment in a "ready" state at all times.

## A battery with brains...

To optimize performance, the IMPRES battery stores usage information that's continuously analyzed by the charging and reconditioning system to automatically maintain the battery at peak performance levels.

## A charger that communicates...

IMPRES multi-unit chargers are available with a two-line display module that communicates important information in real time, including:

- Battery capacity and voltage while charging
- Time remaining to complete rapid charging (NiCd and NiMH only)
- Current battery status, such as charging or reconditioning information
- The battery's unique serial number, kit number and chemistry

## Staying power...

When used exclusively with IMPRES chargers, IMPRES batteries carry extended capacity warranties that continue six months longer than Motorola Premium battery warranties. Motorola's IMPRES Smart Energy System is designed to help you charge batteries to maximum capacity so they have the power your radio systems require...whenever you need it.

WPLN4130A  
IMPRES Multi-Unit Charger  
with Display Modules



# IMPRES™ Battery and Charger Guide by Radio Series



WPLN4130A - With Display Modules (shown)  
WPLN4108BR - Without Display Modules



Display shows battery capacity, voltage, charge status and more in real time.



WPLN4111AR

## For ASTRO® Digital XTS 3000™, XTS 3500™ and XTS 5000™

BATTERY PART NUMBER	CHEMISTRY	CAPACITY†	SPECIAL FEATURES
HNN9031B	NiCd	1525mAh	
HNN9032B	NiCd	1525mAh	Intrinsically Safe*
NNTN4435B	NiMH	1800mAh	
NNTN4436B	NiMH	1700mAh	Intrinsically Safe*
NNTN4437B	NiMH	1700mAh	Intrinsically Safe*, Ruggedized
NTN9862B	Li-ion	2750mAh	

## For ASTRO® Digital XTS 1500™, XTS 2500™, MT 1500™ and PR1500

BATTERY PART NUMBER	CHEMISTRY	CAPACITY†	SPECIAL FEATURES
NTN9858C	NiMH	1850mAh	
NTN9857C	NiMH	1700mAh	Intrinsically Safe*
NNTN6263A	NiMH	1700mAh	Intrinsically Safe*, Ruggedized

## For HT1000™, MT 2000™, MTS 2000™, JT 1000™, MTX8000™ and MTX9000™

BATTERY PART NUMBER	CHEMISTRY	CAPACITY†	SPECIAL FEATURES
HNN9028AR	NiCd	1550mAh	
HNN9029AR	NiCd	1550mAh	Intrinsically Safe*

## For Saber and ASTRO® Saber

BATTERY PART NUMBER	CHEMISTRY	CAPACITY†	SPECIAL FEATURES
HNN9033B	NiCd	2000mAh	
HNN9034B	NiCd	2000mAh	Intrinsically Safe*

The batteries listed above are designed for use with the following chargers:

WPLN4111AR - IMPRES Single Unit Charger

WPLN4108BR - IMPRES Multi-Unit Charger

WPLN4130A - IMPRES Multi-Unit Charger with Display Modules

RLN5382A - Individual IMPRES Display Module for WPLN4108BR (Software Version 1.3 or later)



WPLN4192A - With Display Modules  
WPLN4187A - Without Display Modules (shown)



Display shows battery capacity, voltage, charge status and more in real time.



WPLN4182A

## For HT750™, HT1250™, HT1250-LS™, HT1550-XLS™, MTX850™, MTX850-LS™, MTX8250™, MTX8250-LS™, MTX950™, MTX9250™ and PR860

BATTERY PART NUMBER	CHEMISTRY	CAPACITY†	SPECIAL FEATURES
HNN4001A	NiMH	1800mAh	
HNN4002A	NiMH	1690mAh	Intrinsically Safe*
HNN4003A	Li-ion	2000mAh	

The batteries listed above are designed for use with the following chargers:

WPLN4182A - IMPRES Single Unit Charger

WPLN4187A - IMPRES Multi-Unit Charger

WPLN4192A - IMPRES Multi-Unit Charger with Display Modules

RLN5382A - Individual IMPRES Display Module for WPLN4187A (Software Version 1.3 or later)

\* When used with an FM approved intrinsically safe radio unit.

† Indicates minimum battery capacity.

## IMPRES Charger Specifications

Model Number:	WPLN4111AR	WPLN4108BR	WPLN4130A	WPLN4182A	WPLN4187A	WPLN4192A
Dimensions: (H x W x D)	3.23 x 3.82 x 7.88	6 x 17.5 x 11.5	6 x 17.5 x 11.5	2.2 x 3.8 x 5.8	6 x 17.5 x 11.5	6 x 17.5 x 11.5
Input Voltage:	90-265VAC	90-265VAC	90-265VAC	118-132VAC	90-265VAC	90-265VAC
	50-60Hz	50-60Hz	50-60Hz	50-60Hz	50-60Hz	50-60Hz
Charging Method: (all chargers)	CCDT / Negative Pulse (NiCd/NiMH) and CCCV (Li-ion)					
Charging Current: (maximum)	1.5 A	1.5 A	1.5 A	1.25 A	1.5 A	1.5 A
Warranty:	2 Years	2 Years	1 Year	2 Years	2 Years	1 Year
Operating Temperature:	41° to 104° F	41° to 104° F	41° to 104° F	41° to 104° F	41° to 104° F	41° to 104° F

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MOTOROLA SOLUTIONS

### PLATINUM CHANNEL PARTNER

Manufacturers Representative  
Professional & Commercial Radio Elite Specialist  
P25 Systems

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