



MOTOROLA
intelligence everywhere™



MOTOROLA IMPRES™
BATTERIES & CHARGERS



Extend Talk Time and Battery Life



LONGER-LASTING BATTERIES

impres Virtually Eliminates Memory Effect.

Challenge:

Memory effect is one of the oldest and least understood characteristics nickel based batteries. The most common cause of memory effect is recharging a battery before the battery energy has been fully consumed.

impres solution:

impres smart charger automatically customises its operation to the user's unique charging habits. Place a radio with a smart battery in the single or multiple-unit charger and the system will charge it, recondition it if necessary, keep it fully charged over time while controlling damaging heat build up, and notify you if the battery is beyond its useful life. These features help maximise battery operating time between charge cycles by virtually eliminating memory effect in nickel based battery chemistry. The charger automatically performs a recondition cycle only when required. Plus, impres special patented circuitry now allows for conditioning and reconditioning of a battery in the Smart Charger while it is still attached to the radio.

impres best warranty:

Best of all, impres Nicd batteries are covered under a 24 month workmanship, and a 24 month capacity warranty when used with an impres adaptive charger.

SAVES TIME AND MONEY

impres Helps Reduce Maintenance Procedures.

Challenge:

Trained personnel were required to perform costly battery maintenance functions that were, at best, guessing games when it came to identifying how much battery energy was used during a shift.

impres solution:

impres batteries are charged and optimised to provide the greatest possible power during work shifts. The impres charger is actually three units in one: A rapid charger, a conditioning charger and when necessary a reconditioner. As a result, the impres system automatically performs a recondition cycle only when required; no guessing, no periodic manual recondition cycle life, no wasted cycle life! The system's automation and unique identification feature also usually eliminates the need to manually track and record battery usage.



*impres™:
The Intelligent
Motorola
Portable Radio
Energy System.*



Extend Talk Time



BACKWARDS COMPATIBILITY

impres Works With Your Existing Platforms.

Challenge:

New technology often meant that old hardware was obsolete.

impres solution:

impres batteries and chargers are engineered to work with your existing Motorola two-way radio system. That's because impres adaptive chargers will not overheat standard batteries left in the charger pocket for an extended period of time.

impres optimum performance:

impres batteries when used with an impres adaptive charger provide optimal performance and advanced smart features. impres batteries and charger are compatible with HT1000, JT1000, MT2000, MTS2000, MTX8000, MTX9000, MTX838, XTS3000, XTS3500, XTS5000, Saber and Astro Saber two-way radios.

BETTER CHARGER SELECTION

New Multi-Unit Charger Broadens Charger Choice.

Challenge:

Provide broad Motorola radio charging capability for mixed radio fleets

impres solution:

Now there's a choice: single unit charger or new multi-unit charger with these unique features:

- Backwards Compatible—supports legacy batteries and a variety of radio platforms meeting your needs for backwards compatibility. This system provides an ideal solution for mixed radio fleets requiring superior charging performance along with cross platform compatibility. In addition, even legacy batteries will receive the benefits of a cooler charge from the advanced charging algorithm.
- Recondition batteries while on the radio.
- Provides automatic reconditioning.
- Has charger and battery communication.
- End of Life display provides notification when batteries may need to be removed from service.
- impres Multi-Unit Chargers are Tri-Chemistry, supporting NiCd, NiMH and Li-ion battery chemistries.

impres: The Intelligent Motorola Portable Radio Energy System Features:

- 24 month warranty for NiCd battery when used with an impres adaptive charger.
- Charger/Conditioner/Reconditioner – three chargers in one.
- Automatic Adaptive Reconditioning – reconditions only when necessary based on the customer usage pattern.
- Advanced charging /trickle/ maintenance modes – advanced algorithms keeps batteries cooler during charging... trickle charge is low current and maintenance mode is zero current with top off bursts keeping the battery fully charged at all times.
- Tri-Chemistry Charging – supports NiCd, NiMH, and Li-ion battery chemistries.
- Universal Charging – supports multiple two-way radio models in one charger
- “Safe” Battery Stand – batteries can be safely left on the charger for extended periods of time without damage from overheating while keeping the batteries fully charged.
- Revert to Rapid Charging – keeps battery fully charged at all times.
- Charge Resume – resumes rapid charge on batteries briefly removed from the charger.
- Dual LED Alert – Full Charge / End of Service Life – alerts users when a battery is fully charged, but may be near its end of life. This ensures that good batteries are being used in the field.
- Motorola Battery ID Recognition – Smart batteries contain unique IDs and store a multitude of information about the battery, its usage, and its charge characteristics.
- Charges batteries while on or off the radio.
- Smart batteries and chargers operate with older as well as newer Motorola radio platforms.



e and Battery Life

impres™: The Intelligent Motorola Portable Radio Energy System
PRODUCT COMPATIBILITY

BATTERY MODEL	DESCRIPTION	COMPATIBLE WITH
HNN9028	NiCD 1500mAh 7.5V	HT1000, MTS2000, MTX838, MTX8000/9000
HNN9029	NiCD 1500mAh 7.5V FM App	HT1000, MTS2000, MTX838, MTX8000/9000
HNN9031	NiCD 1525mAh 7.5V	XTS3000, XTS3500
HNN9032	NiCD 1525mAh 7.5V FM App	XTS3000, XTS3500
HNN9033	NiCD 1800mAh 7.5V	Saber, ASTRO Saber
HNN9034	NiCD 1800mAh 7.5V FM App	Saber, ASTRO Saber
PMNN4047	Lilon 1200mAh 7.5V	MTP700 Tetra
PMNN4048	NiMH 1200mAh 7.5V	MTP700 Tetra
PMNN4049	NiMH 1150mAh 7.5V FM App	MTP700 Tetra

CHARGER MODEL	DESCRIPTION	COMPATIBLE WITH
WPLN4112**	impres Single Charger 110-230V EU 2 Pin Cord	HT1000/MTS2000, XTS3000/3500, Saber/ASTRO Saber, MTP700 Tetra
WPLN4113**	impres Single Charger 110-230V UK 3 Pin Cord	HT1000/MTS2000, XTS3000/3500, Saber/ASTRO Saber, MTP700 Tetra
WPLN4117**	impres Single Charger 110-230V US 2 Pin Cord	HT1000/MTS2000, XTS3000/3500, Saber/ASTRO Saber, MTP700 Tetra
WPLN4115	impres Single Charger 110-230V AUST 3 Pin Cord	HT1000/MTS2000, XTS3000/3500, Saber/ASTRO Saber, MTP700 Tetra
WPLN4109**	impres Multi Charger 110-230V EU 2 Pin Cord	HT1000/MTS2000, XTS3000/3500, Saber/ASTRO Saber, MTP700 Tetra
WPLN4110**	impres Multi Charger 110-230V UK 3 Pin Cord	HT1000/MTS2000, XTS3000/3500, Saber/ASTRO Saber, MTP700 Tetra
WPLN4120**	impres Multi Charger 110-230V US 2 Pin Cord	HT1000/MTS2000, XTS3000/3500, Saber/ASTRO Saber, MTP700 Tetra
WPLN4118	impres Multi Charger 110-230V AUST 3 Pin Cord	HT1000/MTS2000, XTS3000/3500, Saber/ASTRO Saber, MTP700 Tetra

**Includes MTP700 battery insert RLN5211A. Not required when use with HT1000/MTS2000,XTS3000/3500. or Saber/ASTRO Saber

OPTIONAL ACCESSORIES / REPLACEMENT KITS	
NLN7967	Wall mount bracket (Multi-unit)
RLN4325	Main board replacement kit (Multi-unit)
RLN5330	Top housing replacement kit (Multi-unit)
6880309L66A	Service Manual (Multi-unit)

	IMPRES CHARGER SPECIFICATION*	
	Single Unit	Multi-Unit
Input Voltage	100 to 220Vac ±10%, 50/60Hz	100 to 220Vac ±10%, 50/60Hz
Size (L x W x H)	200mm x 90 mm x 83 mm	438mm x 152mm x 279mm
Weight (gm)	626	4177
DC Current to battery	1.5A ±15%	1.5A ±15% per slot
Operating Temperature	0 – 50°C	0 – 50°C

*All specifications are subject to change without notice.



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