



RFID Labels for General Purpose Logistics

Description

Compliant with EPCglobal Class 1, Generation 2 and ISO 18000-6C, PowerG battery-assisted, passive (BAP) labels are used to track high value assets in challenging environments. PowerG is ideal for tracking pallets or containers carrying materials that challenge RFID performance, for example, mixed retail pallets and freight pallets.

High performance, affordable price point

The PowerG label provides superior performance due to PowerID's thin and flexible, environment-friendly battery on board the label. This power source obviates the need to harvest energy from the RF reader, which often causes passive RFID labels to fail in providing required performance.

PowerG is the ideal label for companies searching for high performance, affordable RFID labels.

Features	Benefits
Gen. 2 compliance	Supported by Gen. 2 infrastructure and off-the-shelf hardware and software
Integrated power source	Eliminating the need to collect energy from reader leads to improved backscattering and near 100% read reliability
UHF RFID	Operates in the 860-960 MHz spectrum preferred by logistics operators
Environment-friendly battery	Power of active RFID without the chemicals or heavy metals of an active tag battery
Printable battery	Form factor and affordability of thin and flexible label
Designed for challenging environments	Ideal for logistics environments that include metals and liquids

PowerG™ Specifications

Label name	PowerG
Application	General purpose logistics, such as pallet tracking
Dimensions	85 x 54 x 0.9 mm
Operating frequency	PowerG-U403 (902-928 MHz) PowerG-E403 (865-868 MHz) PowerG-J403 (952-955 MHz)
Protocol	EPCglobal Class 1, Gen 2 ISO 18000-6C
Memory	96-bit EPC memory 720-bit on-chip user memory 64-bit tag unique identifier
Power source	Integrated proprietary disposable battery
Antenna	Planar printed antenna
Life expectancy	2 years (at room temperature)
Environmental	Operating temperature: -20° C to +60° C Humidity: 5%-95% non-condensing



About DilinxRFID

With the exclusive partnership with PowerID and Power Paper, DilinxRFID incorporates the world-leading Battery-Assisted Passive ("BAP") and Printed Battery Passive ("PAP") technologies into a new generation of RFID tags. Our target applications include: Personnel Tracking, Container Tracking, Cold Chain for food and medicines, and general logistics in challenging environments.

For more information, visit www.DilinxRFID.com



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