

Emerson™ 701P SmartPower™ Recycling Guide

General information

Emerson™'s Wireless Transmitter make use of the SmartPower™ family of products to power our devices. These SmartPower products make use of single-use Lithium metal Thionyl Chloride (Li/SOCl₂) battery cells. These cells are installed into Intrinsically Safe housings to allow for more rugged use or covers to protect the battery from damage.

Shipping regulations

Primary lithium batteries are regulated in transportation by the U. S. Department of Transportation and are also covered by IATA (International Air Transport Association), ICAO (International Civil Aviation Organization), and ARD (European Ground Transportation of Dangerous Goods). It is the responsibility of the shipper to ensure compliance with these or any other local requirements. Consult current regulations and requirements before shipping.

Handling considerations

Under normal conditions, the battery materials are self-contained and are not reactive as long as the batteries and the battery pack integrity are maintained. Care should be taken to prevent thermal, electrical, or mechanical damage. Contacts should be protected to prevent premature discharge.

Use caution when handling the SmartPower™ products. It may be damaged if dropped onto a hard surface. Battery hazards remain when cells are discharged.

Environmental considerations

As with any battery, local environmental rules and regulations should be consulted for proper management of spent batteries. If no specific requirements exist, recycling through a qualified recycler is encouraged. Consult the materials safety data sheet for battery specific information.

Information table

Product name	Black Power Module	Green Power Module	Blue Power Module	AMS 9530 Battery Assembly	BP20E	Emerson WPG / Emerson GEO20 Battery Assembly
Part number	701PBKKF	701PGNKF	A0701PBU	A0702PPU	BP20E-5100-000X	00G45-9000-0001
Product weight	230 grams	155 grams	399 grams	51 grams	370 grams	105 grams
Lithium %	Less than 5%					
Housing material	Polybutylene terephthalate	Polybutylene terephthalate	Polybutylene terephthalate	No housing, plastic cap for leads	PC-PBT	No housing, plastic wrap to cover leads
Cell count	Dual-cell	Single-cell	Dual-cell	Single-cell	Dual-cell	Single-cell
Cell size	Size C cell	Size D cell	Size D cell	Size C cell	Size D cell	Size D cell

Use the following links to access additional information from the lithium battery safety data sheets (SDS):

- [Lithium Battery Information Sheet – SDS No. T-36-05 \(Rev W\)](#)
- [Lithium Battery Information Sheet – SDS No.- TLP-102,3 6V based PP \(Revision--P\)](#)
- [Lithium Battery Information Sheet – LTN-065-26](#)
- [XenoEnergy Lithium Battery Safety Sheet Revision: 2019-01A](#)

Finding the updated safety data sheets

Use the following steps to find the safety data sheets on the [Emerson.com](https://www.emerson.com) website.

Procedure

1. Visit the respective product page:
 - [Black Power Module](#)
 - [Green Power Module](#)
 - [Blue Power Module](#)
 - [WPG/GEO20 Battery](#)
 - [BP20E Battery](#)
 - [AMS 9530 Battery](#)
2. To access the documentation, scroll down the page to determine which type of document you require:

Option	Description
Power modules	Navigate to Documents & Drawings (refer to Figure 1).
Battery	Navigate to Data Sheets & Bulletins (refer to Figure 2).

Figure 1: Data Sheets & Bulletins page to access power modules

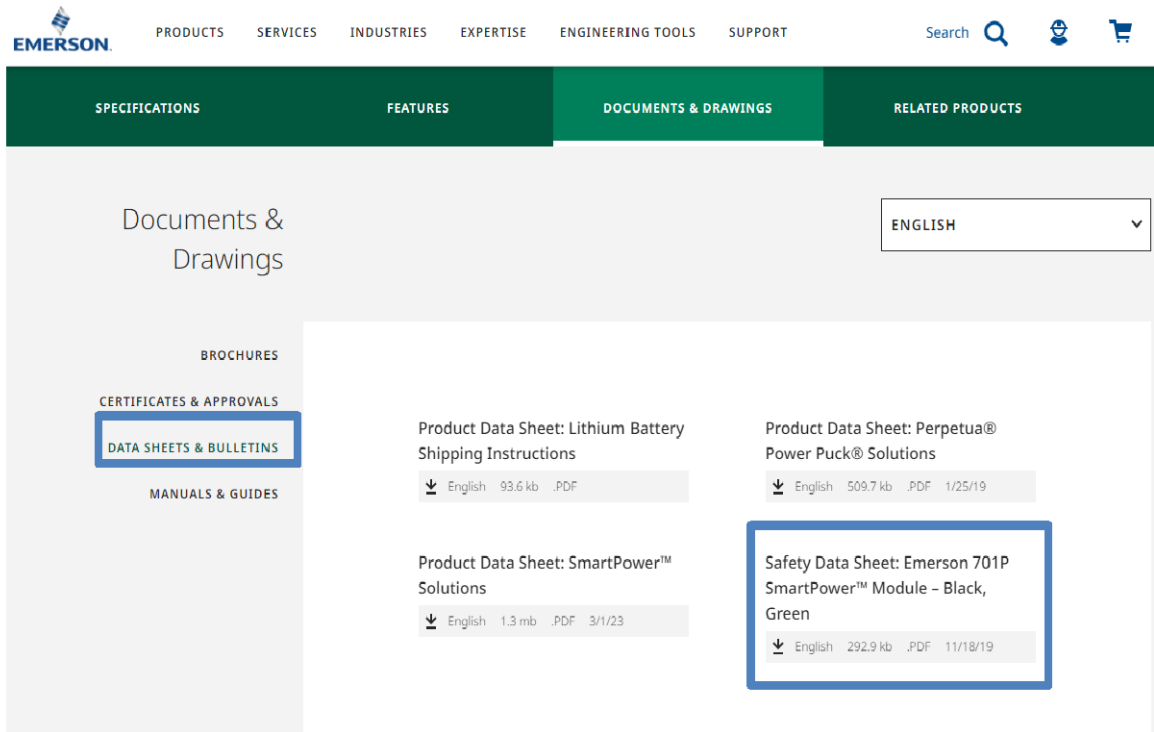
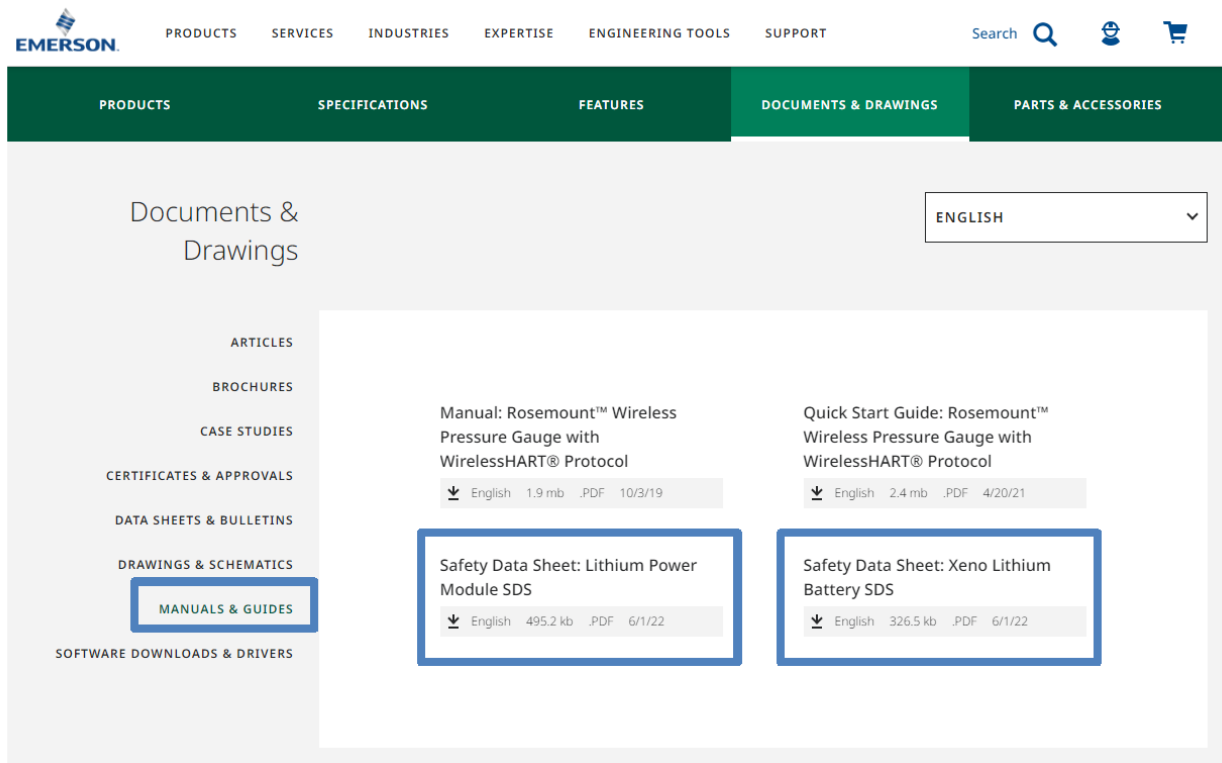


Figure 2: Manuals & Guides page to access power modules



3. Click on the appropriate document to download a PDF of the current version to your system.

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