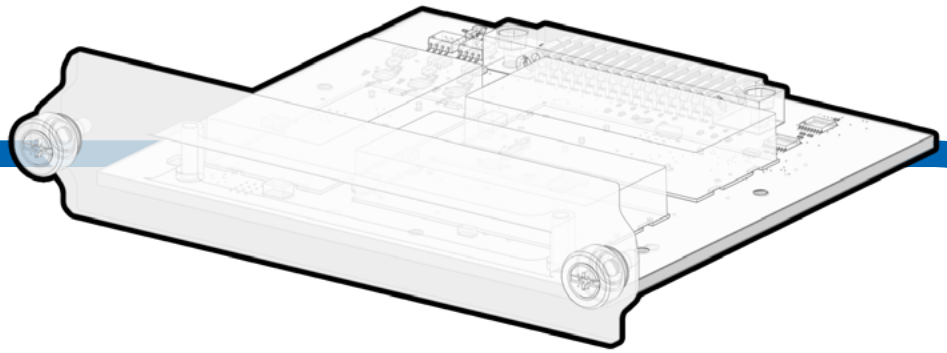
Datasheet



DE1200

Rugged DAQ Power Module

80 W

DEICO

www.deico.com.tr

Contents

1. Description

DE1200 Rugged DAQ Power Module 80 W is a power supply unit designed to be used with the DE1000 Data Acquisition Chassis.

Key features:

- 5 V / 20 W power output
- ±12 V / 30 W power output
- ±15 V / 30 W power output
- Soft shutdown feature

DE1200 Rugged DAQ Power Module 80 W is compliant with MIL-STD-461, MIL-STD-704E, MIL-STD-810G Change 1, RTCA DO-160 standards.

Areas of application:

- Data acquisition systems
- Power management

2. Hardware Overview

2.1. Circuitry

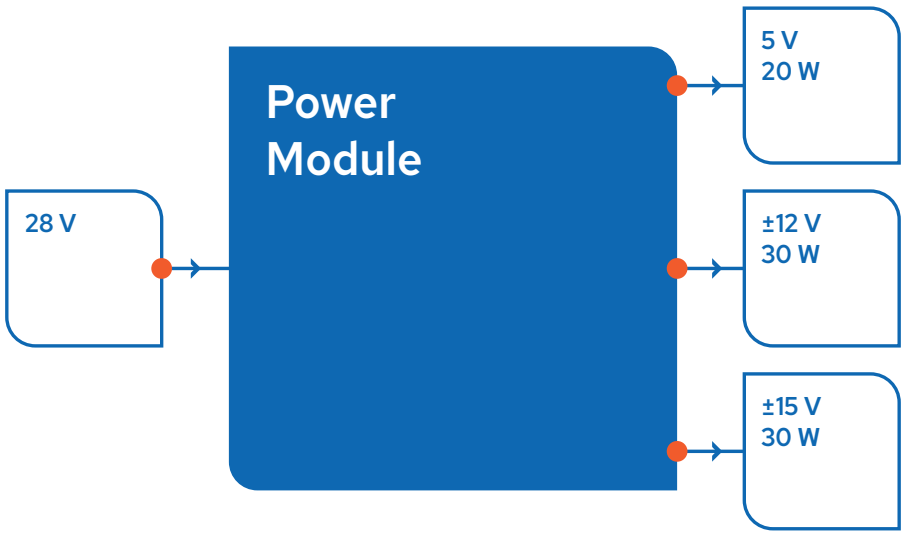


Figure 1: Block Diagram of DE1200

2.2. Hardware Specifications

2.2.1. Electrical

Specification	Minimum	Typical	Maximum	Notes
Input Voltage	18 V	28 V	75 V	Main Power
Input Current	—	—	3 A	Main Current
Output Voltage (P5V)	—	5.4 V	—	—
Output Current (P5V)	—	—	3.7 A	—
Output Voltage (P12V)	—	12 V	—	—
Output Current (P12V)	—	—	1.25 A	—
Output Voltage (N12V)	—	-12 V		—
Output Current (N12V)	—	—	1.25 A	—
Output Voltage (P15V)	—	15 V	—	—
Output Current (P15V)	—	—	1 A	—
Output Voltage (N15V)	—	-15 V		—
Output Current (N15V)	—	—	1 A	—

2.2.2. Environmental

Specification	Condition	Value
Operating Temperature	-	-40 °C - +45 °C

4. Safety Guidelines

Caution

The DE1200 must not be operated in any manner not specified in this document. Misuse of the product may create a hazardous situation. The safety protection incorporated into the product can be compromised if it is damaged. In case of damage, the product should be returned for repair.

5. Electromagnetic Compatibility Guidelines

This product has been tested and found to comply with the applicable regulatory requirements and limits for electromagnetic compatibility (EMC). These requirements and limits are designed to provide reasonable protection against harmful interference when the product is operated within its intended electromagnetic environment.

The product is intended to be used in industrial locations. However, harmful interference may still be caused in certain installations, particularly when connected to peripheral devices or test objects, or when operated in residential or commercial environments. To reduce the potential for radio and television interference and to avoid unacceptable degradation in performance, the product must be installed and used strictly in accordance with the instructions provided in the documentation.

In addition, any changes or modifications to the product that are not expressly approved by DEICO are not permitted and could void the user's authority to operate the equipment under applicable regulatory provisions.

Caution

This product shall be operated only with shielded cables and accessories to ensure the specified EMC performance.