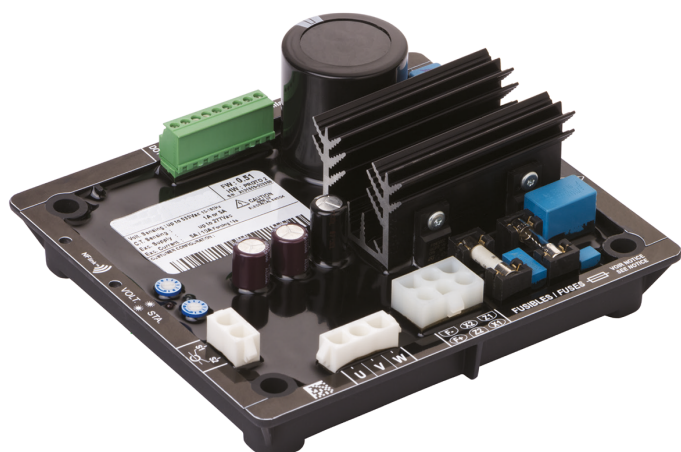




About DVC 350

The DVC 350 is a digital automatic voltage regulator (AVR) for alternators which require rated field current up to 5 A.

DVC 350 offers numerous control and protection functions for the various components of generator sets, especially for managing short circuits and load impacts. The DVC 350 offers a USB communication module for setting parameters and retrieving data.

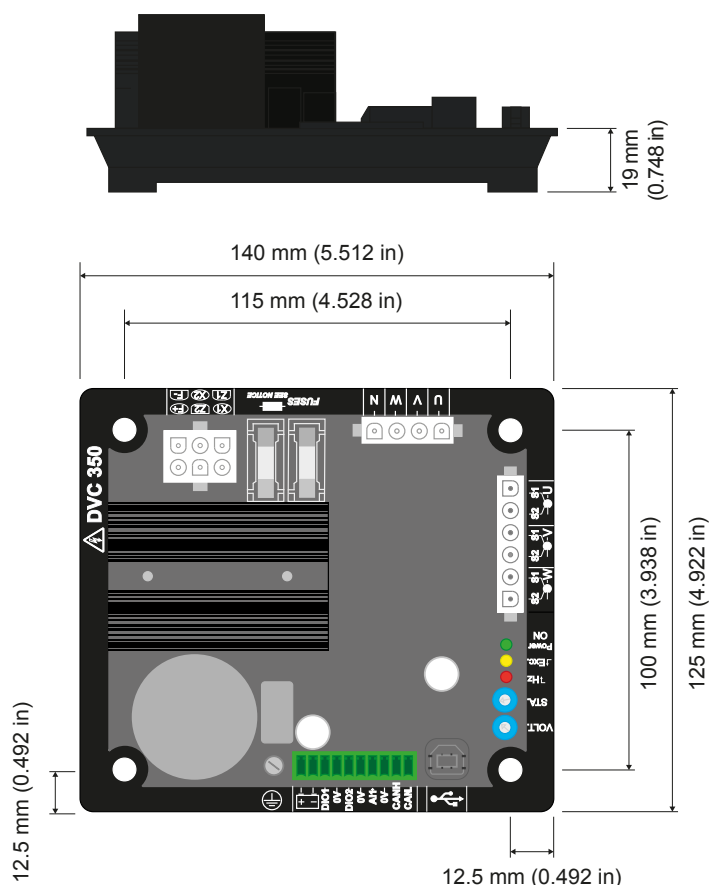
The utility software, DEIF EasyReg Advanced, provides a visual interface to configure values and parameters. The intuitive interface makes it fast and easy to monitor and troubleshoot.

The DVC 350 conforms to standard IEC 60034-1 and is certified UL508 and CSA.

DVC 350 functions

- Reactive droop compensation, adjustment range -20 to 20 %
- Over-excitation protection
- Loss of sensing
- Stator current monitoring
- Withstand a sudden short-circuit for 10 seconds
- U/F
- LAM (Load Acceptance Module) function
- Soft start function
- Voltage soft recovery
- Two configuration modes, activated by a digital input
- USB connection for configuration

Dimensions



Electrical specifications

Power supply

- AC:
 - 4 terminals for PMG, AREP, SHUNT
 - Range: 50 to 277 V AC
 - Consumption: max. < 3000 VA
- DC:
 - Range: 8 to 35 V DC
 - Consumption: max. < 500 mA

Alternator voltage sensing

- 3 phases with neutral or 2 phases
- Three-phase range: 0 to 530 V AC
- Consumption: < 2 VA

Stator current measurement with CT

- 3 phases measurements with a range of 0 to 5 A
- Consumption: < 5 VA

Field excitation

- Rated: 0 to 5 A
- Short-circuit: 10 A max.
- Field winding resistance: > 10 Ω

Frequency

- Range: 10 to 100 Hz

Operating conditions

- Operation: -40 to +70 °C
- Storage: -55 to +85 °C
- Relative humidity: 0 to 95 %
- Max. impact: 9 g on all three axes

Inputs and outputs

- Analogue input: 1
- Digital input/output (configurable): 2

Communication

- USB for communication
- CAN bus for regulation

Conformity to standards

- EMC: IEC 61000-6-2, IEC 61000-6-4
- Humidity: IEC 60068-1, test in accordance with IEC 60068-2-14
- Dry heat: IEC 60068-2-2
- Damp heat: IEC 60028-2-30
- Cold: IEC 60068-2-1

Protections

- 1 x Over-voltage.....ANSI 59
- 1 x Under-voltage.....ANSI 27
- 1 x Over-frequency.....ANSI 81H
- 1 x Under-frequency.....ANSI 81L
- 1 x Over-excitation.....ANSI 32FV
- 1 x Under-excitation.....ANSI 32RV
- 1 x Voltage unbalance.....ANSI 47
- 1 x Temperature threshold
- 1 x Short circuit (stator current threshold)
- 1 x Start motor fault
- 1 x Loss of sensing

For more information:

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