



ST-64G2

STARTER MOTOR TESTER

FOR ADVANCED PERFORMANCE EVALUATION



- Advanced testing designed to deliver maximum capabilities, flexibility and accuracy
- User configurable graphical interface with wide range of virtual instruments
- Programmable test profiles for complete control of test process
- Ready for Start-Stop and Change-of-Mind Starters

The ST-64 is D&V Electronics' best analysis tester for starter motor performance evaluation. The high resolution 16 bit data acquisition with 200 kHz fast data sampling provides in-depth analysis of starter motor operating parameters. The ST-64 model is primarily for analysis, development, lab, and research operations. The high torque option also makes it a good choice for heavy-duty (up to 10 kW) starter motor validation, and other low volume operations.

Features

- Next generation laboratory testing of starter motors performance validation
- High accuracy testing, including loaded performance, free run speed with non-contact sensor, and stall test
- High resolution 16 bit Data Acquisition with fast data sampling at 200 000 samples/sec for all important channels
- Load test conditions can include speed, torque, or current
- Camera interface for easy pinion alignment
- Graphical plotting utility allowing high-resolution presentation of all measured parameters
- Optional engine cranking simulation & customer abuse test available
- Interface to DV Link for network storage of test results
- Advance diagnostic interface
- User configurable graphic interface with wide range of virtual instruments
- Capable of testing single/tandem coil solenoids with separate reading of contact/engagement coils
- In-rush current limiting capabilities
- Ready for Change of Mind (CoM) starters
- Automated test with programmable scripting of test procedure provides complete control of test process
- Servo-based linear positioning system for precise gear adjustment, automatic free-run and load test positioning
- Scans performance curve as per ISO 8856 method
- Step or sweep performance test
- Computer controlled programmable 1500 Amp or 3000 Amp starter power supply, simulates batteries internal resistance
- Computer controlled 120/240 Amp programmable solenoid power supply
- In-line torque and/or reaction sensor measurement
- Excellent for design and prototype labs, product quality assurance, component validation, and warranty analysis
- Expandable measuring interface for custom requirements. Temperature inputs and auxiliary analog channels available for customer defined measurements.
- Optional reaction torque fixture, solenoid block test, and/or starter kinematic test

Technical Data Measured Parameters

Starter Current	up to 1500 or 3000 Amps
Starter Voltage	12 & 24 Volts (32V optional)
Loaded Starter Speed	0 -11,000 rpm*
Starter Torque	up to 200+ Nm*
Solenoid Current	up to 120A or 240A (option)
Starter Efficiency	0-100%
Starter Output Power	up to 10 kW
Starter Input Power	up to 30 kW
Ripple Current	0-200 Amps

* pinion: gear ratio determines max torque and max test speed



ISO 9001:2015
 CERTIFIED

© 2014 D&V Electronics Ltd. - 12-14 / 723PB-0012_01

D&V ELECTRONICS LTD.
 130 Zenway Boulevard, Woodbridge, Ontario Canada L4H 2Y7
 Phone: +1 (905) 264-7646 Toll Free: 1 (888) 979-1919 (US & Canada)
sales@dvelectronics.com

www.dvelectronics.com

