EAAT GmbH Chemnitz

Test Inverter PWR-100

The test inverter PWR-100 is designed for testing electric motors in the low voltage range, e.g. servomotors in the automotiv sector, motors for battery operated tools or motors in medical technology.

E/A/A

The device can be used to carry out long-term and heating tests as well as to record characteristic fields and for end-of-line testing. Among other things, there is the possibility of parameter identification for connected test objects. This includes, for example, the determination of winding resistance, phase inductance and EMF in motors.

The PWR-100 includes a software package for parameterization and commissioning as well as for evaluating the tests.

The PWR-100 enables the testing of various components in a wide parameter field (current, frequency, etc.) and, thanks to its flexibility and its numerous adjustable parameters, is ideally suited for installation in test benches.



Elektrische Automatisierungs- und Antriebstechnik

EAAT GmbH Chemnitz

Test Inverter PWR-100

Technical Data		
Supply Voltage	15 36 VDC	
Intermediate Circuit Voltage (UZK)	2 100 VDC, with a maximum of ± 60 V with respect to ground (PE)	
Output Voltage	to 3 x 65 V eff (depending on the DC link voltage)	
Output Current	at UZK 24 VDC150 Aeff (without VL-Option); 100 Aeff (with VL-Option)at UZK 48 VDC80 Aeffat UZK 100 VDC50 Aeff	
Output Frequency	0 2.000 Hz	
PWM-Frequency	1 kHz up to 40 kHz, Space Vector Control	
Commutation	Sine, Block, Trapez (optional)	
Operating modes for engines	FOC, sensorless, V / f control	
Control algorithms	Voltage control, current control, speed control, speed control with subordinate current control, torque control, position control	
Efficiency	> 90%, at 100V DC, 20 A, 20 kHz PWM Frequency	
Current Measurement	3 engine strings + DC, 16 bit resolution, ± 1%	
Voltage Measurement	3 motor connections + DC, 16 bit resolution, ± 1%	
Monitoring Functions	Short circuit, overcurrent, overvoltage (intermediate circuit, gate driver), Undervoltage (intermediate circuit, gate driver), over temperature	
Controllable Electric. Machinery	PSM, BLDC, ASM, GM, 1-phase AC machines, 3-phase reluctance motors	
Position Encoder Interfaces	Absolut und Inkrementell, Resolver, Hall-Sensor, Sin/Cos-Encoder, SSI, EnDat	
Communication Interfaces	CAN, USB (optional), RS485, CANopen (planned)	
Additional Interfaces	Supply voltage, DC link voltage Digital IOs for release, reset, status, etc. Analog IOs (±10 V)	
Cooling	Forced air cooling, no additional cooling measures required	
Protection Class	IP20	
Ambient conditions	0 to 40 ° C, rel. Air humidity <90 % without condensation	
Relative humidity	up to 90 %, without condensation	
Test Functions	Currents Iq and Id adjustable (parameter or analog input) Parameter identification (resistance, inductance, EMF, etc.) Integrated oscilloscope Generation of harmonic currents and voltages	
Dimensions (B x H x T) mm, Weight (kg)	PWR-100-C: 212mm x 300mm x 310mm, approx. 15 kg PWR-100-S: 133mm x 300mm x 310mm, approx. 8 kg	



全国办事处

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