



Designed for the harshest operating environment – meeting the most stringent requirements in industrial applications, such as oil and gas, petrochemical, power production, or power distribution and transmission plants. The IDSe and IDTe range applies the latest digital control technology and offers user-friendly operation and a comprehensive monitoring concept.



AC INVERTER SYSTEM

IDSe/IDTe

5–650 kVA

Key features

- ▶ Based on well proven technology platform
- ▶ Latest digital control technology
- ▶ Fully monitored system platform
- ▶ Clear structured front panel
- ▶ Modern communication software
- ▶ Rugged and heavy industrial design
- ▶ Design life of up to 30 years

Operational benefits

- ▶ High reliability
- ▶ High degree of customization and flexibility
- ▶ Low operational costs
- ▶ Easy operation and control
- ▶ Easy access and intuitive communication
- ▶ Low maintenance cost
- ▶ Long durability



Standard features

Statron's IDSe and IDTe range offers many outstanding standard features enabling a secure supply of the critical loads.

- Wide DC voltage range
- Automatic DC pre-charge function
- IGBT-PWM technology
- Inverter isolation transformer

- Bypass and inverter static switches
- 3-position manual bypass switch
- High inverter overload capability
- Short-circuit-proof output
- Easy to understand and to operate HMI
- LCD display, programmable colour-coded LED mimic and alarm panel
- Multi-language HMI menu
- Fully digital controlled system logic
- Real time fault analysis and recording of up to 2500 events
- Potential-free contacts



Options

The flexible system concept and a full range of options enable a fully customized solution meeting any specific requirement.

- Redundant and dual configuration
- Bypass isolation transformer
- Bypass voltage stabilizer
- External manual bypass switch

- Output circuit breaker & AC distribution
- Redundant fans
- AC earth fault monitor
- Analogue panel meters
- Additional alarm indication
- Digital control inputs
- External communication interface: HTTP, Modbus RTU/TCP, IEC 61850
- Special cabinet colour
- Increased protection degree
- Top cable entry

Technical Specification | IDSe/IDTe 5–650 kVA

DC voltage	Output power at pf 0.8	5	10	15	20	30	40	50	60	80	100	120	160	200	400	650
	kVA															
110 V	1 Ph	●	●	●	●	●	●	●								
	3 Ph	●	●	●	●	●	●	●	●	●	●					
220 V	1 Ph	●	●	●	●	●	●	●	●	●	●					
	3 Ph	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
400 V	1 Ph					●	●	●	●	●	●	●	●	●		
	3 Ph						●	●	●	●	●	●	●	●	●	●
Input DC voltage (min. – max.)	VDC	-15/+20% of nominal voltage (other on request)														
Output voltage	VAC	110/120/220/230/240 VAC 1ph (IDSe) / 200/208/380/400/415 VAC 3ph (IDTe)														
Total harmonic distortion	THD	< 2% for linear load; < 5% for non-linear loads (@75% load / crest factor 3:1)														
Overload capacity of inverter		125% for 10 min 150% for 1 min > 200% for 200 ms														
Overload capacity of static switch		105% continuous 150% for 1 min 1000% for 50 ms														
Frequency	Hz	50 or 60 Hz														
Voltage regulation		+/-1% static on all operating conditions														
Audible noise	dB(A)	< 70 dB(A)														
Efficiency	%	82 to 90% at full load (depending on type)														
Operating conditions	°C	-10 to +40 °C (up to 55 °C on request)														
	RH	95% humidity (non condensing)														
	m	≤1000 m.a.s. (without derating)														
Ventilation		Forced fan cooling (redundant fans on request)														
Protection Degree		IP20 (up to IP54 on request)														
Dimensions (WxTxH)		600 x 800 x 2100 mm up to 1200 x 800 x 2100 mm, depending on model														
Colours		RAL 7035 (others on request)														
Standard protection		Input MCCB, electronic current limitation, over-temperature protection, DC under/overvoltage shutdown, AC synchronization monitor														
Standard alarms and status indication on LCD, mimic and alarm panel		DC input OK, Inverter OK, AC bypass input OK, inverter synchronized, load on inverter, load on bypass, AC output OK, breaker status, manual bypass status, bypass transfer inhibited, Fan failure, Overloaded														
Potential-free contacts		Standard Alarms (others on request)														
Main applicable standard		IEC/EN 62040-3 Performance IEC/EN 62040-2 EMC IEC/EN 62040-1 Safety VFI-SS-111 classification to IEC 62040-3														
Quality/Environmental		ISO 9001:2000/ISO 14001														

Further data available on request

© 2019 Statron AG, data subject to change without notice