

DSVR 100/200

SVS100/200

Wide Input Voltage and Frequency Range

DSP and IGBT Technology

High Reliability



TOWER

SERVICE /
TECH. SUPPORT

ECO FRIENDLY

90-350
VAC

WIDE RANGE



TESCOM DSVR/SVS Series Wide Range Voltage-Frequency Regulators are high efficiency voltage-frequency protection and management devices with DSP control and IGBT technology. It is user-friendly with its compact and small footprinted design, advanced communication options and modular structure. With its wide input voltage and frequency tolerance, especially in areas where the mains or supply voltage is very bad, it offers a definite solution to the protection of your systems by providing the high quality and reliable energy needed by your critical loads.

In 3:1 phase systems, even if any of the input phases are interrupted, the continuity of your loads is ensured by working safely. In addition to electronic protections such as overload and short circuit, it guarantees high reliability operation with mechanical protections such as fuses and surge arresters.

GENERAL SPECIFICATIONS

- Modular structure with DSP control
- True double conversion technology
- 3-Level technology and fully digital structure (3/1 phase models)
- Less electronic components and SMD technology
- High efficiency
- Voltage and frequency range selection
- Low current harmonic distortion at the input
- High input power factor
- Safe operation even if one of the input phases is cut off (3/1 phase models)
- High output power factor (3/1 phase models- Output PF:9)
- Advanced control and protection at the input
- Output current limitation, DC leakage, short circuit and overload protection
- High voltage surge arrester and fuse protections
- Advanced LCD front panel, 5 vector control buttons and led mimic diagram
- Display of operating parameters and easy intervention with advanced diagnostics
- 512 event (46,000 alarms) logs (3/1 phase models)
- Clock and calendar (battery supported)
- Advanced communication
- 1 RS232 serial communication port
- 3 dry contact outputs (2 programmable)
- External REPO input
- Optional SNMP, MODBUS and Remote Monitoring Panel
- Advanced remote control features
- User and central service passwords protected security
- Compliant with IEC EN62040 directive
- Conforms to CE, TSE and GOST standards
- ISO9001, ISO14001 compliant production
- 2 years warranty

SPECIFICATION COMPARISON TABLE

MODEL	DSVR 100	DSVR 200	SVS 100	SVS 200
Power range (kVA)	10/20	25	10/20	25
Input voltage range (VAC)	90-300	90-300	160-280	160-280
Output PF	0.8	0.7	0.8	0.7
2 Line LCD	✓		✓	
4 Line LCD		✓		✓
RS232 Port	✓	✓	✓	✓
3 Standard dry contact outputs			✓	✓
Emergency power off (EPO)	✓	✓	✓	✓
128 Events (5000 Alarms) Logs	✓		✓	
512 Events (46000 Alarms) Logs		✓		✓
Input/Output fuse protections	✓	✓	✓	✓
Surge arrester	✓	✓	✓	✓

TECHNICAL SPECIFICATIONS

MODEL	DSVR 110	DSVR 120	DSVR115R	DSVR120R	DSVR 225
Power (kVA)	10	20	15	20	25
Power (kW)	8	16	12	16	17,5
Power Factor	0,8				0,7
INPUT					
Phase	1 Phase + Neutral + Ground			3 Phase + Neutral + Ground	
Voltage	220/230 VAC (P-N)				
Voltage Range	90 - 350 VAC (Regulable)			90 - 300 VAC (Regulable)	
Frequency	40-65Hz				
Input Current THD	< %5 (%100 Load)				
Input Connection	Electric Terminal				
OUTPUT					
Phase	1 Phase + Neutral + Ground				
Voltage	220/230VAC				
Voltage Tolerance	± %1				
Frequency	50Hz ± 5Hz (± %2 Synchro)				
Efficiency	up to %91				
Current	37A	73A	55A	73A	80A
Overload capacity (*)	%100 to %125 3 min, %125 to %150 10 sec, %151 load 0.2 sec, output shutdown				%101 to %125 10 min, %125 to %150 1 min.
Reaction time	20min/sec				
Correction speed	500V/sec				
Output Connection	Electric Terminal				
LCD Display	2 line			4 line	
LCD Display Indicators	"Input voltage value, Output voltage value, Output load percentage, Output frequency, Stabilizer status and fault information, Warnings (Overload, over temperature, input error, output error, etc.)"				
Communication	Software support and "Remote Management System" (over the network) with monitoring and management (optional)				
PROTECTION					
Input-Output Voltage Protection	The stabiliser switches off electronically at low/high voltage				
Input-Output Current Protection	MCB				
Over Temperature Protection	Stabilizer shuts down for overtemperature				
Surge Arrester	Surge arrester unit suitable for lighting and high voltage (standard)				
COMMUNICATION					
RS232 Communication Port	Standard				
Emergency Stop (EPO)	Standard				
Dry Contact Outputs	Optional			4 Standard (2 programmable)	
RS485 Communication Port	Optional				
CABIN SPECIFICATIONS					
Type	Off				
Protection Class	IP20				
Color	RAL7016				
Base	Wheelless			Wheel	
Cooling	Air Cooled Fans				
Dimensions (WxDxH) mm	215x655x435	215x805x590	490x801x213		300x770x700
Weight (kg)	27	52	54	57	59,5
ENVIRONMENTAL					
Operating Temperature	0°C ~ +40°C				
Storage Temperature	-10°C ~ +50°C				
Altitude	< 3000m			< 2000m (Rated power)	
Relative Humidity	< %90 (non-condensing)			< %95 (non-condensing)	
Acoustic Level	< 50 dB			< 65 dB	
Standards	CE / ISO 9001				
(*) The waiting times for excessive loads vary depending on the ambient temperature.					

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Power Factor	0,8		0,7
INPUT			
Phase	1 Phase + Neutral + Ground		3 Phase + Neutral + Ground
Voltage	220/230 VAC (P-N)		
Voltage Range	160 - 270 VAC (Regulable)		
Frequency	40-65Hz		
Input Current THD	< %5 (%100 Load)		
Input Connection	Electric Terminal		
OUTPUT			
Phase	1 Phase + Neutral + Ground		
Voltage	220/230VAC		
Voltage Tolerance	± %1		
Frequency	50Hz ± 5Hz (± %2 Synchro)		
Efficiency	up to %93		
Current	37A	73A	80A
Overload capacity (*)	%101 - %125 3 min., %126 - %150 10 sec., %151 load 0.2 sec, output shutdown		%101-%125 10 min., %125-%150 1 min.
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