

CUSTOMIZED POWER SOLUTIONS



INDEX

■ CL101	01
■ DS100RT / DS200RT	02
■ DSVR / SVS	03
■ DS200FD	04
■ ES300D	05
■ DS 300T-IS1	06

■ DS POWER T-HF1	07
■ DS POWER U1	08
■ DS300C	09
■ TVR11 / TVR33	10
■ DS POWER M	11

CL101

1kVA / 1:1



SECURITY



TRANSPORT



HOME & OFFICE

ONLINE UPS

- ▶ Advanced Battery Management
- ▶ Automatic Frequency Detection
- ▶ DSP Control

CL101 (1kVA) Online UPS is an uninterruptible power supply designed with true double conversion technology and DSP (Digital signal processors) controlled processor. Thanks to True Double Conversion technology, UPS works independent from mains voltage and frequency. By converting the energy AC to DC energy, keeps your batteries constant charge. After converting it back to AC energy and applies filtration process before supply your loads. Efficiency with Active Power Factor Correction (APFC) feature and flexibility with wide voltage/frequency range is available. It provides high -level protection for your data center, control systems and other critical loads.



PLUG & PLAY



TOWER / RACK



UPS ONLINE



POWER FACTOR



ECO FRIENDLY



GENERAL SPECIFICATIONS

- High frequency on-line double conversion technology
- DSP (Digital signal processors)
- Active power factor correction
- Output PF: 0.9
- Wide voltage and frequency range
- Active Harmonic Correction <3%
- Automatic frequency detection
- 50/60Hz frequency range
- Cold start
- Rear panel ventilated design and variable fan speed
- Effective software and hardware protection
- Fast and durable battery charge, 90% in 4 hours
- Adjustable delay start when mains power is restored
- The ability to charge the battery even when it is in the off position.
- Uninterruptible transfer
- Load sensitive intelligent fan control
- Easy fault diagnosis with smart alarm warning system and diagnostic coding
- Advanced battery management
- Configuring settings via LCD screen
- Multi communication: RS232, (standard), USB, RS485/SNMP/Dry contact (optional)

DS100RT / DS200RT

6-10kVA 1:1 / 10-20kVA 3:1



HOME & OFFICE



MALLS & FACILITIES



TRANSPORT



MEDICAL



INDUSTRY

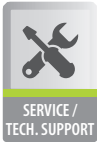
ONLINE RACK AND TOWER UPS

- ▶ Rack and Tower Design
- ▶ IGBT Rectifier
- ▶ DSP Control

DS Power 200RT Online UPS has DSP technology that can operate in a wide variety of electrical environments. Its compact design allows Rack and Tower operation with a reversible display for flexibility. With DSP control, efficiency, reliability and functionality have been increased to levels that could not be reached with the old analog technology. It offers solutions for your long-term applications with high charging current and parallel battery connection outputs. It is offered with 10-15-20KVA options.



TOWER / RACK



SERVICE /
TECH. SUPPORT



UPS ONLINE



ECO FRIENDLY



POWER FACTOR



GENERAL SPECIFICATIONS

- DSP control technology and fully digital structure
- IGBT technology and high efficiency
- Design that allows the use of Racks and Towers
- Suitable for parallel operation
- High input power factor
- $\pm 340\text{VDC}$ battery voltage
- High output efficiency up to 93%
- Selectable input/output voltage/frequency range
- Maintenance bypass switch
- High charging current capacity
- LCD Panel and mimic led diagram
- Reversible display
- Conforms to IEC EN62040
- Conforms to CE, TSE and GOST standards
- ISO9001, ISO14001 compliant production
- Advanced control at the input
- 3 level battery protection
- Heat compensated charging
- Output current limitation
- Output DC leakage protection
- Output short circuit and overload protection
- External REPO input
- 128 events memory (5.000 alarm)
- Clock and calendar (battery supported)
- Automatic battery test, remaining battery time indicator
- 1 RS232 serial port and standard dry contact outputs
- Optional SNMP, MODBUS and Remote Monitoring Panel
- Viewing device operating parameters
- Advanced remote control features
- User and central service password-protected security
- 2 years warranty

DSVR 100/200

10-20kVA / 1:1

SVS 100/200

25kVA 3:1



INDUSTRY



TRANSPORT



MARINE



MEDICAL



HOME & OFFICE

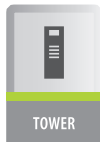
WIDE RANGE STATIC VOLTAGE / FREQUENCY REGULATORS

- Wide Input Voltage and Frequency Range
- High Reliability
- DSP and IGBT Technology

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.



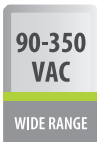
TOWER



SERVICE /
TECH. SUPPORT



ECO FRIENDLY



90-350
VAC

WIDE RANGE



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

DS200FD

10-120kVA / 3:1 / 1:1



SPECIALLY DEVELOPED FOR RAILWAY APPLICATIONS

- ▶ 3 Level Technology
- ▶ IGBT Rectifier
- ▶ DSP Control

Tescom DS200FD Series has been specially developed for railway applications. The new DS Power range UPS uses the latest DSP technology to be programmed to suit a wide variety of electrical environments without impeding its performance. With the DS200FD Series, efficiency, reliability and functionality are enhanced to levels unattainable with the old analogue technology. This technology does not only create significant increase in MTBF, but the capability of DSP to accurately manipulate signals at very high speed permits all the UPS subsystems to be controlled with greatly increased precision.



GENERAL SPECIFICATIONS

- 3 phase or 1 phase input voltage
- High charging current capacity
- 3 Level topology
- High input power factor
- High efficiency up to 94%
- Cold start function
- Static and maintenance by-pass switch
- Output short circuit and overload protection
- External REPO switch input
- 512 events memory (512 events 45000 alarms)
- Clock and calendar (battery supported)
- Automatic battery test, remaining battery time indicator
- Temperature compensated charge system
- 2 RS232 serial ports and 12 dry contact outputs
- 3 DSP controlled modular structure
- Optional SNMP and MODBUS adaptors
- Optional graphical panel
- Optional usb flash memory
- Full digital structure
- Small footprint
- Ecomode operation (optional)
- Fewer electronic components
- Output current limiting
- Advanced diagnostics for the input
- Selectable input/output voltage/frequency/range
- Split by-pass input (second input)
- Output DC leakage protection
- Separate DSP for inverter control
- Separate DSP for the PFC
- 3 level battery protection
- High charge current capacity
- Charge/discharge current indicator
- Advanced remote control
- Manufactured according to EC Directive; EN62040
- 10 years spare parts support
- 2 years warranty

ES300D

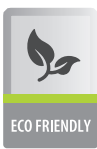
10-160kVA / 3:3



EMERGENCY LIGHTING INVERTER

- ▶ Uninterruptible Lighting
- ▶ EN50171 Standard
- ▶ High Reliability

Tescom ES300D Series are static inverter systems used for emergency lighting such as open area, escape route and high risk task area. It provides flexibility in your applications with its product range up to 160kVA and multiple control mode applications allow lighting to be controlled in various ways. With over 40 years of experience and expertise in the field, Tescom ES300D Emergency Lighting Systems offers all kinds of lighting applications as a reliable and all-inclusive system.



GENERAL SPECIFICATIONS

- DSP controlled modular structure
- 3 Level topology
- Full digital structure
- True sinewave
- DC short circuit protection
- Deep discharge protection
- Automatic battery test, remaining battery time indicator
- High charge current capacity
- Inverter design to suit high inrush lighting loads
- FAR controls
- Selectable output modes with external control (if external contactor fitted)
- External phase fail connection (if external contactor fitted)
- Selectable inverter or changeover mode
- Advanced LCD front panel
- Diagnostics for fault analysis
- RS232 and dry contacts
- Advanced communication for remote monitoring
- Manufactured according to EN50171
- 2 years warranty

DS 300T-IS1

30-100kVA / 3:3



INDUSTRY



MEDICAL



TRANSPORT



MALLS & FACILITIES

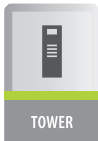
INDUSTRIAL UPS

- ▶ Working with flexible battery number
- ▶ 7" Color TFT touch screen
- ▶ Internal regenerative load module
- ▶ Inverter isolation transformer
- ▶ Bi-directional rectifier

Specially reinforced and designed as a complete system for industrial applications. With DSP technology, efficiency, reliability and functionality have been raised to levels unattainable with old analog technology. This technology not only creates a significant increase in MTBF, but the DSP's ability to accurately process signals at very high speed allows all UPS subsystems to be controlled with greatly increased precision.



It provides safe operation for critical loads, especially for industrial applications, with its internal inverter isolation transformer, Bi-directional rectifier and internal regenerative load module offered as standard. With the less number of batteries and flexible configuration provide significant savings in your system ownership costs, the safety of your devices and loads is at the highest level with smart battery management.



TOWER



VFI
TYPE



SERVICE /
TECH. SUPPORT



ECO FRIENDLY



0.9

POWER FACTOR



GENERAL SPECIFICATIONS

- Separate DSP control for PFC and inverter
- High efficiency and fully digital structure
- Online true double conversion
- Small footprint design
- ECO mode operation (optional)
- Selectable input/output voltage/frequency range
- Split by-pass input (dual input)
- Bi-directional rectifier
- High input power factor
- Internal input, output, battery breakers
- Static and maintenance bypass switches
- Interactive battery breakers
- Working in harmony with the generator, generator contact input
- 3-Level battery protection
- High battery charging capacity
- Temperature compensated charge system
- Automatic and manual battery test
- In-Built inverter isolation transformer
- Advance communication features
- 7" Color TFT resistive touch panel (16M color)
- External REPO input
- 4MByte (175000 alarms) event data logs
- Clock and calendar (battery supported)
- 1 RS232 serial port and 4 dry contact output (12 optional)
- High protection (fuses, over heat, over current, DC leakage and over load)
- Maximum security with two level user and central service password
- Optional SNMP/MODBUS modules
- VNC Server, Easy Access 2.0 (VPN)
- Compliant with IEC EN62040 directive
- Conforms to CE, TSE and GOST standards
- ISO9001, ISO14001 compliant production

DS POWER T-HF1

10-80kVA / 3:3



INDUSTRY



MEDICAL



DATA CENTER



TRANSPORT



MALLS & FACILITIES

40 PCS. BATTERY + TRANSFORMER

- ▶ IGBT Rectifier and DSP Control
- ▶ Inverter Isolation Transformer
- ▶ 40 Pcs. Battery

DS Power T-HF1 Online UPS is designed for harsh working conditions. With the latest DSP technology, which can be programmed to suit a wide variety of electrical environments, efficiency, reliability and functionality have been raised to levels unattainable with legacy analog technology. This technology not only creates a significant increase in MTBF, but the DSP's ability to accurately process signals at very high speed allows all UPS subsystems to be controlled with greatly increased precision. It provides additional protection for your loads with the galvanic inverter isolation transformer. Thanks to its low battery working structure (40 pcs.), it ensures that your total costs of ownership costs such as storage, commissioning, laboring and maintenance are minimized.



TOWER



VFI
TYPE

UPS ONLINE



SERVICE /
TECH. SUPPORT



ECO FRIENDLY



0.9

POWER FACTOR



GENERAL SPECIFICATIONS

- 3 DSP controlled modular structure
- Galvanic inverter isolation transformer
- Separate main control board advantage for rectifier and inverter
- DSP controlled technology and fully digital structure
- Less electronic components and SMD technology
- Low input current total harmonic distortion (THDi)
- High input power factor
- High efficiency up to 94%
- Selectable input/output voltage/frequency range
- Static and maintenance by-pass switch
- High charge current capacity
- Eco Mode operation (optional)
- Split by-pass input (dual input)
- Advanced LCD front panel and mimic led diagram
- Compliant with IEC EN62040 directive
- Conforms to CE, TSE and GOST standards
- ISO9001, ISO14001 compliant production
- Advanced control at the input
- 3 level battery protection
- Output current limitation
- Output DC leakage protection
- External REPO input
- 512 events memory (46.000 alarm)
- Clock and calender (battery supported)
- Automatic battery test, remaining battery time indicator
- 2 RS232 serial ports and 4 programmable dry contact outputs
- Optional 12 dry contact outputs
- Optional SNMP, MODBUS and Remote Monitoring Panel
- Viewing device operating parameters
- Advanced remote control features
- User and central service password-protected security
- 2 years warranty

DS POWER U1

15-250kVA / 3:3



INDUSTRY



MEDICAL



DATA CENTER



TRANSPORT

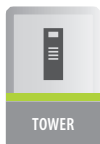


MALLS & FACILITIES

110V 60HZ

- ▶ 3 Level Technology
- ▶ IGBT Rectifier
- ▶ DSP Control

DS Power U1 On-Line UPS is designed for 110VAC - 60Hz systems. It uses the latest DSP technology to be programmed to suit a wide variety of electrical environments without impeding its performance. With the 3-Level topology, efficiency, reliability and functionality have been raised to levels unattainable with legacy. This technology does not only create significant increase in MTBF, but the DSP's ability to accurately process signals at very to accurately manipulate signals at very high speed allows all the UPS subsystems to be controlled with greatly increased precision.



TOWER



VFI
TYPE

UPS ONLINE



SERVICE /
TECH. SUPPORT



ECO FRIENDLY



1.0

POWER FACTOR



110V
60Hz

INPUT-OUTPUT



GENERAL SPECIFICATIONS

- Transformerless UPS technology
- Modular control structure by 3 DSP
- Separate main control boards for rectifier and inverter
- 3-Level technology and fully digital structure
- Less electronic components and SMD technology
- Low input current total harmonic distortion (THDI)
- High input power factor
- High efficiency up to 95%
- Selectable input/output voltage/frequency range
- True double conversion
- Static and maintenance by-pass switch
- High charging current capacity
- ECO mode operation (optional)
- Split bypass input (dual inputs)
- Advance TFT front panel
- Manufactured according to IEC Directive; EN62040
- Conformity for CE, TSE and GOST standards
- ISO9001, ISO14001 compliant production
- Advance control at the input side
- Temperature compensated charge system (optional)
- Output current limitation
- Output DC leakage protection
- 3 level battery protection
- Output short circuit and overload protection
- External REPO switch input
- 512 events memory (512 events 46000 alarms)
- Clock and calendar (battery supported)
- Automatic battery test, remaining battery time indicator
- 2 RS232 serial ports and 4 dry contact outputs
- Optional 12 dry contact output
- Optional SNMP, MODBUS and Remote Monitoring Panel
- Monitoring device operating parameters and advanced diagnostics
- Advance remote control features
- User and central service passwords protected security
- 2 years warranty

DS300C

10-250kVA / 3:3



INDUSTRY



MEDICAL



TRANSPORT



MARINE



TELECOMMUNICATION

FREQUENCY CONVERTERS

- ▶ 50Hz, 60Hz, 400Hz
- ▶ High Reliability
- ▶ DSP Control

Tescom DS300C Frequency Converters are produced to provide the energy for your devices, which are powered by AC voltage from the mains and requires different frequency. Our converters, which have many usage areas, mainly in transportation, maritime, telecommunication and military applications, are designed for continuous operation with PWM and IGBT technology and convert 50Hz or 60Hz mains energy to 50Hz, 60Hz or 400Hz energy to supply your critical loads.

Next pages of this catalog, you will find the technical specifications of 380VAC-60Hz converters in the 10-200KVA power range and 208V-400Hz converters with inverter galvanic isolation transformers within 3/3 phase systems. Please contact with your sales representative for your different requests and questions.



TOWER



SERVICE /
TECH. SUPPORT



ECO FRIENDLY



1.0

POWER FACTOR



GENERAL SPECIFICATIONS

- DSP controlled
- 3-Level technology and fully digital structure
- Less electronic components and SMD technology
- Low input current harmonic distortion (THDI)
- High input power factor
- High efficiency up to %95
- Selectable input/output frequency range within 50-60Hz (For only DS300HC-60 models)
- High output power factor (PF:1.0)
- Advanced control and protection at input
- Current limitation at output, DC leakage, short circuit and overload protection
- Advanced TFT front panel (For 40kVA and above)
- Advanced diagnostic, easy monitoring and service intervention
- 512 event logs (46.000 alarm)
- Clock and calendar (battery supported)
- Advanced communication
- 2 RS232 serial ports and programmable 4 dry contact outputs (12 contacts optional)
- External REPO input
- Optional SNMP, MODBUS and Remote Monitoring Panel
- Advanced remote control features
- Security with user and centralized service password (OTP)
- Compliant with IEC EN62040 directive
- Conforms to CE, TSE and GOST standards
- ISO9001, ISO14001 compliant production
- 2 years warranty

TVR11 / TVR33

5-50kVA 1:1 / 10,5-3000kVA 3:3



INDUSTRY



TRANSPORT



MALLS & FACILITIES



HOME & OFFICE

AUTOMATIC VOLTAGE REGULATOR

- ▶ Microprocessor Control
- ▶ Wide Voltage Range
- ▶ High Protection

Tescom TVR11 and TVR33 Series Servo Voltage Regulators provide safe energy for your loads in sites where your mains is irregular or where the power supply voltage is unstable, such as a generator. By keeping the voltage within certain tolerances, it offers full protection against the risk of damage caused by excessive fluctuations in voltage.

With microprocessor control, the necessary signals for the desired regulation are transmitted to the dc motor. The DC motor provides movement in the direction of adding or subtracting voltage for regulation on the variac to which it is mechanically connected. This supplied voltage is transferred to the differential auxiliary transformer (booster transformer). As a result, electronically controlled stable voltage is provided in the output voltage against voltage changes.



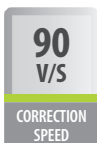
It has high correction speed, full mechanical and electronic protection. TVR11 series are offered in the power range of 5-50kVA with 1 phase input 1 phase output, TVR33 series 3 phase input 3 phase output 10.5-3000kVA power range.



SERVICE /
TECH. SUPPORT



ECO FRIENDLY



90
V/S
CORRECTION
SPEED



1.0
POWER FACTOR



GENERAL SPECIFICATIONS

- 1 phase input 1 phase output (5-50kVA)
- 3 phase input 3 phase output (10,5-3000kVA)
- Wide power and voltage interval
- High reliability thanks to Microprocessor and Smart Driver
- Fast Regulation
- High efficiency
- Load transfer to Bypass via pole charge switch
- Safe and economic usage
- Overcurrent and overload protection
- Digitally displayed status, input & output measurements

DS POWER M

300kVA / 3:3



INDUSTRY



MARINE



AIRLINE

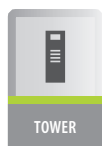


ONLINE UPS COMPLIANT WITH MILITARY STANDARDS

- MIL-STD 461G
- IGBT Rectifier
- DSP Control

Tescom DS Power M Online UPS, manufactured in accordance with military standards (MIL-STD 461G), can work in harsh terrain and site conditions. It is designed to work the desired conditions in terms of appropriate and Electromagnetic Compatibility (EMC) at the maximum level. It has the latest DSP technology that can be programmed to suit a wide variety of electrical environments without impeding its performance.

Tescom continues to offer reliable solutions to the needs of our country, especially the defense industry, with its exemplary projects.



TOWER



VFI
TYPE

UPS ONLINE



SERVICE /
TECH. SUPPORT



ECO FRIENDLY



COMPACT
DESIGN



GENERAL SPECIFICATIONS

- Transformerless UPS Technology
- 3 DSP controlled modular structure
- Separate main control board advantage for rectifier and inverter
- Unmatched power density (220kW/m³) with its compact design
- Less electronic components and SMD technology
- Low input current total harmonic distortion (THDi)
- High input power factor
- High efficiency up to %95
- Selectable input/output voltage/frequency range
- Static and maintenance by-pass switch
- High charge current capacity
- Eco Mode operation (optional)
- Split by-pass input (dual input)
- Minimum electromagnetic emission and susceptibility
- Advanced TFT front panel
- Optional 0.8 and 1.0 output power factor (PF)
- Optional inbuilt inverter transformer
- Optional input/output isolation transformer
- Compliant with IEC EN62040 directive
- Conforms to CE, TSE and GOST standards
- Compliant with MIL-STD 461G standard
- ISO9001, ISO14001 compliant production
- Advanced control at the input
- 3 level battery protection
- Output current limitation
- Output DC leakage protection
- Output short circuit and overload protection
- External REPO input
- 512 events memory (46.000 alarm)
- Clock and calendar (battery supported)
- Automatic battery test, remaining battery time indicator
- 2 RS232 serial ports and 4 programmable dry contact outputs
- Optional 12 dry contact outputs
- Optional SNMP, MODBUS and Remote Monitoring Panel
- Viewing device operating parameters and advanced diagnostics
- Advanced remote control features
- User and central service password-protected security



www.tescom-ups.com / international@tescom-ups.com

