

DS|Power 110 Series

Uninterruptible Power Supplies

IGBT RECTIFIER DSP CONTROL

The new Tescom 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 DS|Power range, 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

- Transformerless UPS topology
- Low input current total harmonic distortion (THD)
- 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 (46000 alarms)
- Clock and calender (battery supported)
- Automatic battery test, remaining battery time indicator
- Temperature compensated charge system
- Regenerative backfeed function
- 2 RS232 serial ports and 12 dry contact outputs
- 3 DSP controlled modular structure
- Optional SNMP and MODBUS adaptors
- Optional Graphical and touch panel
- 2 years warranty
- 10 years spare parts support
- Manufactured according to EC Directive; EN62040
- Full digital structure
- Small footprint
- Economode operation
- 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
- Seperate DSP for inverter control
- Seperate DSP for the PFC
- 3 level battery protection
- High charge current capacity
- Charge/discharge current indicator
- Advanced remote control features

Reliable Power



Technical Specifications

MODEL	DS305-110	DS310-110	DS315-110	DS320-110	DS330-110	DS340-110	DS350-110	DS360-110	DS380-110
Power(kVA)	5	10	15	20	30	40	50	60	80
INPUT									
Voltage	200/208 VAC three-phase + N, +/- 20% (220VAC +15% -25%)								
Frequency	50Hz or 60Hz selectable , +/- 5Hz								
Power factor	> 0,99								
Harmonic current distortion	≤ 4% *								
Protection	fuses, voltage tolerance, frequency tolerance, input power limit								
By-pass Voltage	200/208/220 VAC three-phase + N, +/- 10%								
By-pass Protection	short circuit, voltage tolerance, frequency tolerance, VAT transfer								
OUTPUT									
Power factor	0,9								
Voltage	200/208/220 VAC three-phase + N, +/- 1%								
Frequency	50Hz or 60Hz (selectable)								
Frequency tolerance	line synchronized: +/- 2% / Free running: +/- 0,1% (adjustable)								
Efficiency	up to 94%								
Crest Factor	3:1								
Overload Protection	100-125% for 10min, 125-150% for 1min, >150% load: by-pass								
Other Protections	Advanced short circuit, voltage tolerance, DC balance, regenerative load, current limiting								
THD (at 100% linear load)	< 3%								
BATTERIES									
Type	VRLA AGM / GEL / NiCd								
Nominal Voltage	+/- 192VDC								
Float / End of dischg voltage	+/- 216VDC / +/-160VDC								
Battery housing	Internal						Battery cabinet		
Battery ambient temp. °C	25 °C								
Protections	3 level alarm, battery fuses, charging current limit, temperature compensation(opt.)								
Automatic testing	Standard every 72 hours(adjustable)								
GENERAL									
Standards	EMC(2004/108/EC) / LVD(2006/95/EC) - EN62040-1, EN62040-2, EN60950								
User interface	4 lines LCD panel, Mimic leds, 5 vector buttons, Buzzer, graphical touch-panel (opt.)								
Indicators	P-N voltage, P-P voltage, Current, Power, Crest factor, Frequency ,PF, Service time								
Advanced	Self diagnostics, 4 maintenance time indicators, Calibration over RS232								
Communication	2 x RS232 serial ports, 4 standard and 8 optional DRY contact alarm relays								
Inputs	EPO input, Interactive battery panel input, Genset input								
Genset kit	Standard (programmable)								
Software	Standard T-Mon UPS Management Software (3 clients + 1 server management)								
Alarm logging	Standard; with time & date 192 events, (optional 512 events)								
Protections	Power module over-temperature, Over current, Temperature high alarm								
Temperature range	0 °C - 40 °C								
Protection Degree	IP20 (other, on request)								
Humidity / Altitude	90% max (noncondensed) / <1000m above sea level								
Acoustic noise	≤ 57 dBA	≤ 62 dBA			≤ 64 dBA		≤ 68 dBA		
Weight (kg.)	87	91	100	173	180	194	216	258	
Dimensions (mm) HxWxD:	1035x400x810			1440x515x850					
OPTIONS									
Input / Output voltage	Other special input/output voltages								
Transformer	Galvanic isolation transformer at the input & output								
Software	T-Mon Admin Multi UPS monitoring, T-Mon Server 50-100-200 clients, DLOG log loader								
Comm. Adaptors	SNMP, MODBUS, RS485, Remote Panel								
Parralel Operation	Up to 8 UPS								
(*) Depending on the input conditions.									



TEST TÜM ELEKTRONİK SAN. VE TİC. A.Ş.

Ulukent Sanayi Bölgesi 10009 Sk No:1

Menemen – İzmir 35660 TURKEY

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

