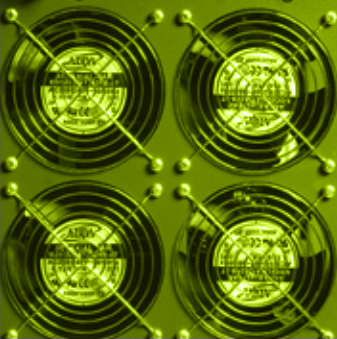




100- 250 kVA

# DS POWER 110 SERIES

UNINTERRUPTIBLE POWER SUPPLIES



3 phase in / 3 phase out

## IGBT RECTIFIER DSP CONTROL

*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 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
- 192 events memory (192 events 4500 alarms)
- Clock and calendar (battery supported)
- Automatic battery test, remaining battery time indicator
- Temperature compensated charge system (optional)
- 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



**Tescom®**





100 - 250 kVA

## TECHNICAL SPECIFICATIONS

MODEL	DS3100-110	DS3125-110	DS3150-110	DS3200-110	DS3250-110
Power (kVA)	100	125	150	200	250
<b>INPUT</b>					
Voltage	200/208 VAC three-phase + N, $\pm 20\%$ (220VAC +15% -25%)				
Frequency	50Hz / 60Hz selectable, $\pm 5\text{Hz}$				
Power factor	$> 0,99$				
THDI (*)	$\leq 4\%$				
Protection	Fuses, voltage tolerance, frequency tolerance, input power limit				
By-pass voltage	200/208/220 VAC three-phase + N, $\pm 10\%$				
By-pass protection	Short circuit, voltage tolerance, frequency tolerance, VAT transfer				
<b>OUTPUT</b>					
Power factor	0,9				0,8
Voltage	200/208/220 VAC three-phase + N, $\pm 1\%$				
Frequency	50Hz or 60Hz (selectable)				
Frequency tolerance	Line synchronized: $\pm 2\%$ / Free running: $\pm 0,1\%$ (adjustable)				
Efficiency	up to 95%				
Crest factor	03:01				
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)	$< 3\%$				
<b>BATTERIES</b>					
Type	VRLA AGM / GEL / NiCd				
Nominal voltage	$\pm 192\text{ VDC}$ for 200/208VAC ( $\pm 216\text{ VDC}$ for 220VAC)				
Float / End of dischg voltage	$\pm 216\text{ VDC}$ / $\pm 160\text{ VDC}$ for 200/208VAC ( $\pm 243\text{ VDC}$ / $\pm 180\text{VDC}$ for 220VAC)				
Battery housing	Battery rack or cabinet				
Battery ambient temp.	25 °C				
Protections	3 level alarm, battery fuses, charging current limit, temperature compensation (opt.)				
Automatic testing	Standard every 72 hours (adjustable)				
<b>GENERAL</b>					
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, Optional graphical touch-panel				
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, Interface 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	90% max (noncondensed)				
Altitude	$< 1000\text{m}$ above sea level				
Acoustic noise	$\leq 68\text{ dBA}$			$\leq 72\text{ dBA}$	
Weight (kg)	495	550	710	795	812
Dimensions (mm) HxWxD	1900x880x775			1900x1245x775	
<b>OPTIONS</b>					
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				
Parallel operation	Up to 8 UPS				

(\*) Depending on power and input/output conditions