

DS POWER 110L

Internal 48 Battery

IGBT Rectifier

DSP Control



TOWER



SERVICE /
TECH. SUPPORT



UPS ONLINE



ECO FRIENDLY



POWER FACTOR



Online UPS 10kVA features DSP technology, capable of operating in a wide range of electrical environments. With DSP control, efficiency, reliability and functionality are increased to levels unattainable with older analog technology. It offers solutions for your long-term applications with high charging current and parallel battery connection outputs.

GENERAL SPECIFICATIONS

- DSP control technology and fully digital construction
- IGBT technology and high efficiency
- Internal battery (Optional external battery can be connected)
- Consists of 24 battery groups connected in 2 parallel
- High output efficiency up to 92%
- Selectable input/output voltage/frequency range
- Maintenance bypass switch
- High charging current capacity (5A) (Adjustable)
- LCD Panel and mimic led diagram
- Conforms to IEC EN62040 directive
- CE compliant production
- ISO9001, ISO14001 compliant production
- 3-level battery protection
- Heat compensated charging
- Output current limitation
- Output DC leakage protection
- Output short circuit and overload protection
- Overvoltage and current protection
- Temperature warning
- Diagnostic fault, error notification
- External REPO input
- 128 event logs (5,000 alarms) (Date and time supported)
- Automatic battery test, remaining battery time display
- 1 RS232 serial port and standard dry contact outputs
- Optional SNMP
- View device operating parameters
- Access security protected by user and service passwords
- 2 year warranty

TECHNICAL SPECIFICATIONS

MODEL	DS110L
Power (kVA)	10
INPUT	
Voltage	220/230 VAC 3P + N + G \pm 20% (@ 100% load)
Frequency	50Hz / 60Hz, \pm 10%
Power factor (@100% load)	\geq 0.96
THDI (*)	\leq 5%
By-pass voltage	220/230 VAC 1 P + N, \pm 10
Bypass frequency	50Hz \pm 5%
Protection	Fuses, High Voltage (Surge Arrester) Protection, Voltage and Frequency tolerance, Input power limiting, Phase reversal protection
OUTPUT	
Power (kW)	8
Power factor	0.8
Voltage	220/230 VAC 1P + N, \pm 1%
Frequency	50Hz / 60Hz
Frequency tolerance	Line synchronized: \pm 2% / Free running: \pm 0,1%
Efficiency (@100% load)	up to 92%
Crest factor	3:1
Overload capacity	100-125% for 10min, 125-150% for 1min, >150% load: by-pass
Other protections	Intelligent short circuit protection, Voltage tolerance protection, DC balance, Current limiting protection
Voltage THD	< 2% (at 100% linear load)
BATTERIES	
Type	Maintenance-free dry type
Battery number	24x2 pieces (12VDC)
Charge voltage	324 VDC
End of discharge voltage	252 VDC
Charge current (Independent of output load)	5A DC (Adjustable)
Battery cabinet	Internal (External battery can be connected)
Batt. ambient temp.	25°C
Protections	3-level alarm, Battery fuses, Charging current limitation (standard) Battery charging system with heat compensation (optional)
Automatic testing	Standard (automatic or Manual)
GENERAL	
Standards	EN62040-1, EN62040-2, EN62040-3
User interface	2X16 line LCD panel, Mimic led panel, 5 vector buttons, Buzzer
Indicators	P-N voltage, P-P voltage, Current, Power, Crest factor, Frequency, PF, Service time
Advanced	Auto diagnostics, 3 maintenance indicators, Calibration system via RS232, Operating hours display
Communication	RS232 serial port, 4 standard NO/NC dry contacts
Inputs	EPO (emergency shutdown) input
Software	Test / service interface with RS232 Port
Alarm logging	Standard: time & date 128 events (5000 alarms)
Protections	Power module over heat protection, Over current, Over temperature
Operating temperature range	0°C - 40°C
Protection degree	IP20
Power connections	Klemens
Fuses and breakers	Input, Output, Battery and Maintenance Bypass Fuse (Standard)
Humidity	90% max. (non-condensing)
Altitude	< 2000m. above sea level (at rated power)
Acoustic noise	< 55 dBA
Net weight (kg)	Weight without battery: 80 kg / Weight including battery: 196 kg
Dimensions (mm) WxDxH	400x815x1040
OPTIONS	
Different input/output voltage	Please ask
Transformer	Galvanic isolation transformer at inlet and outlet
(*) Depending on power and input/output conditions	
(**) TESCOM reserves the right to make changes regarding all models, specifications, colors, equipment and accessories of the products without prior notice.	