DS POWER 110 SERIES

Uninterruptible Power Supplies

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 impending 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 (92 events 4500 alarms)
- Clock and calender (battery supported)
- Automatic battery test,remaining battery time indicator
- Temperature compansated 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 panel
- Optional usb flash memory
- 2 years warranty
- 10 years spare parts support
- Manufactured according to EC Directive; EN62040

- Full digital structure
- Small footprintEconomode operation
- Fewer electronic components
- Output current limiting
- Advanced diagnostics for the input
- Selectable input/output coltage/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



Technical Specifications

MODEL	DS3100-110	DS3125-110	DS3150-110	DS3200-110	DS3250-110			
Power (kVA)	100	125	150	200	250			
NPUT								
/oltage		200/208 VAC thre	e-phase + N, ± 20% (22)	0VAC +15% -25%)				
requency	50Hz / 60Hz selectable , ± 5Hz							
Power factor	> 0,99							
Harmonic current distortion	≤ 4% *							
Protection		fuses, voltage tole	rance, frequency tolerand	ce, input power limit				
By-pass voltage	200/208/220 VAC three-phase + N, ± 10%							
By-pass protection			tolerance, frequency tol					
OUTPUT			, , , , ,	,				
Power factor	0,9							
/oltage	200/208/220 VAC three-phase + N, ± 1%							
requency	50Hz or 60Hz (selectable)							
requency tolerance	line synchronized: ± 2% / Free running: ± 0,1% (adjustable)							
Efficiency	up to 95%							
Crest factor	3:1							
Overload protection								
a de constantina de la constantina del constantina de la constantina del constantina de la constantina	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) BATTERIES			< 3%					
	T		VRLA AGM / GEL / NiCo	4				
ype								
lominal voltage	± 192 VDC							
loat / End of dischg voltage	± 216 VDC / ± 160 VDC							
Battery housing	Battery rack or cabinet							
Battery ambient temp. °C	25 °C							
Protections	3 level alarm, battery fuses, charging current limit, temperature compensation(opt.)							
Automatic testing		Stand	lard every 72 hours(adju	stable)				
GENERAL	_							
Standards	EMC(2004/108/EC) / LVD(2006/95/EC) - EN62040-1, EN62040-2, EN60950							
Jser interface	4 lines LCD panel, Mimic leds, 5 vector buttons, Buzzer, Optional graphical touch-panel							
ndicators	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							
nputs	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							
emperature range	0 °C - 40 °C							
Protection degree	IP20 (other on request)							
Humidity / Altitude	90% max (noncondensed) / <1000m above sea level							
Acoustic noise	≤ 68	≤ 68 dBA ≤ 72 dBA						
Veight (kg)	495	550	710	795	812			
Dimensions (mm) HxWxD	1900x8	80x775		1900x1245x775				
OPTIONS								
nput / Output voltage	Other special input/output voltages							
ransformer	Galvanic isolation transformer at the input & output							
	T-Mon Admin Multi UPS monitoring, T-Mon Server 50-100-200 clients, DLOG log loader							
Software	SNMP, MODBUS, RS485, Remote Panel							
Software Comm. adaptors		SINIVIP.	MODBOS, NS40S, Reilic					
		SNMP,	Up to 8 UPS	ote i dilei				

Reliable Power