

# DS-300 SERIES



**10 - 120 kVA**

**On-Line**

**High Frequency**

**3PH - 3PH**

DS-300 SERIES

10 - 120 kVA

## Main Features

- Transformerless UPS topology
- Low input current total harmonic distortion (TDH)
- 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
- Regenerative backfeed function
- 2 RS232 serial ports and 12 dry contact output
- 3 DSP controlled modular structure
- Optional SNMP and MODBUS adaptors
- Optional Graphical and touch panel
- Full digital structure
- small footprint
- Economode operation
- 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
- High charge current capacity
- Charge/discharge current indicator
- Advanced remote control features

شركة  
البحر  
للصناعة  
والخدمات

**Electra Power Uninterruptible power supply (UPS)**

## مشخصات فنی . Technical Specifications

MODEL		DS310	DS315	DS320	DS330	DS340	DS360	DS380	DS3100	DS3120	مدل
INPUT	Power factor / THDI	> 0.98 / < 5 %									ضریب توان
	Voltage	380-400 VAC 3 Phase, 4 Wires, + Earth +/- 20% (240/415VAC +15%, -25%)									دامنه ولتاژ
	Frequency	50Hz / 60Hz selectable, +/- 5%									دامنه فرکانس
	By-pass Voltage	380-400 VAC 3 Phase, 4 Wires, +/- 20%									دامنه بای پس
	By-pass Protection	Short circuit, Voltage tolerance, Frequency tolerance									حفاظت بای پس
	Voltage Distortion	< 10 %									تأثیر روی شبکه
	Protection	Fuses, Voltage & Frequency tolerance, Input power limit, Input PFC									حفاظت ورودی
OUTPUT	Power (kW)	9	13.5	18	27	36	54	72	90	108	توان
	Power factor	0.9									ضریب توان
	Voltage	380-400 VAC 3 Phase, 4 Wires, + Earth, +/- 1 %									دامنه ولتاژ
	Frequency	50Hz / 60Hz selectable									سطح فرکانس
	Frequency tolerance	Line synchronized ; +/- 2 % / Free running ; +/- 0,2% (adjustable)									دقت فرکانس
	Efficiency	up to 94%									بازدهی
	Crest factor	3:1									جهش جریان
	Overload protection	100% - 125% load ; 10 min, 125% - 150% load ; 1 min, >150%load; by pass (adjustable)									اضافه بار
	Other protections	Advanced short circuit, Voltage tolerance, DC balance, Regenerative load, Current limiting									حفاظت
	THD (at 100% linear load)	<3%									هارمونیک ولتاژ
BATTERY	Type	Sealed Lead Acid - Maintenance free									نوع باتری
	Number of batteries	2 x 30 (+/- 30) ; 60 batteries									تعداد
	Float charging voltage	2 x 405 VDC									ولتاژ شارژ
	End of discharge voltage	2 x 300 VDC									ولتاژ دشارژ
	Protections	3level alarms, Battery fuses, Charging current limit, Temperature compensation									حفاظت
	Automatic testing	Standard every 72 hours (adjustable)									تست
GENERAL	Regulations	EN62040-2									استاندارد
	User interface	4 lines LCD panel, mimic leds, 5 vector buttons, buzzer, optional graphical touch-panel									پانل کاربر
	Communication	2 x Rs232 serial ports, 4 standard and 8 optional DRY contact alarm relays									درگاه ارتباطی
	Genset kit	standard (programmable)									سازگاری ژنراتور
	Software	Standard T-Mon UPS management software (3 clients - 1 server management)									نرم افزار
	Alarm logging	Standard ; with time & date 192 events, (optional 512 events)									ثبت وقایع
	Protections	Power module over-temperature, Over current, Temperature high alarm									حفاظت
	Temperature range	0 C - 40 C									دمای کاری
	Protection degree	IP20									حفاظت تابلیوی
	Humidity	90% max (non condensed)									رطوبت
	Acoustic noise	< 57 dBA	< 62 dBA	< 64 dBA	< 68 dBA						نویز صوتی
	Weight (kg.)	87	87	91	100	173	180	194	244	259	وزن
	Dimensions (mm) HxWxD	1035x400x815			1440x515x850				1900x775x910		
OPTION	Input	110/208 VAC									ولتاژ ورودی
	Output	110/208 VAC									ولتاژ خروجی
	Transformer	Galvanic isolation transformer at the input & output									ترانس ایزوله
	Software	T-mon admin multi UPS monitoring, T-mon Server 50-100-200 clients, log loader									نرم افزار
	Adaptors	SNMP, MODBUS, RS485, Remote panel									مبدل ها
	Parallel operation	Available 1+1 / N+1 (up to 4) 2014									قابلیت پارالل