



# Online UPS 1Phase Out

## DS Series

10~40kVA

3:1 phase



Control Panel



MADE IN TURKEY

## Features:

### ■ High reliability design

Double Conversion on-line design, which makes the output a pure sine wave source with tracking frequency, phase-lock and voltage regulation, noise suppression, and without power fluctuation interference, providing the load with more comprehensive protection.

Zero transfer time of output, satisfies high standard power requirements of precision equipment.

Modular design and dual-CPU control, high reliability and stability ensure the safe operation and high efficiency.

### ■ High reliability during operation

Pure online static bypass technology, provides a strong protection against overload and fault.

Built-in manual maintenance bypass, further improves the reliability of continuous operation.

### ■ Wide input range

The range of AC input voltage is  $380V \pm 25\%$

thereby it reduces the battery using frequency and greatly extending the battery life.

Wide input frequency range, ensure all types of generator compatible.

### ■ Optimization of high-performance battery

Adapt intelligent battery management (ABM) technology, thus it extends battery life and reduces battery maintenance times.

Advanced CC (constant current) / CV (constant voltage) auto-conversion charging technology maximizes the activation of cells, thus it saves the charging time and extending the battery life.

### ■ Comprehensive and reliable protection

Self-diagnosis function before start-up, avoid the risks that the failure may lead to.

The multi-protections such as overload, short-circuit, over-temperature, battery under voltage, battery over-charge and so on greatly ensure the system stability and reliability.

■ Adoption of IGBT Inverter, saves energy & coupled with an isolation transformer, enhances the reliability and load adaptability.

■ Reliability > 99%

■ Charging Current 1 - 20 Ampere Adjustable





1. RS232 port
2. Parallel port
3. Input breaker
4. FAN
5. Connection box
6. Entrance hole
7. Active wheel

■ **User-friendly network management**

LCD accurately displays the status of operation and data for users.

Communication with computer can be realized by RS232 with the corresponding monitoring software. The various parameters can be shown on the communication interface.

External SNMP adapter. The UPS with remote network management capability can provide real-time data for communication and management through a variety of network management systems.

► **Technical Specifications**

MODEL	DS3110L16	DS3115L16	DS3120L16	DS3125L20	DS3130L20	DS3140L20
Capacity (KVA)	10	15	20	25	30	40
Technology	3:1 phase, online double conversion					
<b>INPUT</b>						
Voltage range/Power factor	380Vac±25% ("3Ph+N+PE") / 0.97					
Operating frequency range	50/60 Hz (±5%)					
<b>OUTPUT</b>						
Voltage range	220 Vac±1%					
Frequency range	50/60Hz (±1%)					
Power Factor	0.8 Std. / (0.9 Optional)					
Crest factor	3 : 1 (max)					
Max. efficiency	91% (10% - 100% Load)					
THD	< 2% (Linear load)					
Overload	110 ~125% 60sec, 150%/45 sec later, transfer to bypass, restore after unloading					
<b>BATTERY</b>						
Battery voltage	192Vdc			240Vdc		
<b>SYSTEM FEATURES</b>						
Transfer time	0 ms (Line mode → battery mode)					
LED Display	Utility status, inverter, bypass, battery status, UPS abnormal, overload					
LCD Display	I/O voltage, frequency, battery voltage, load, internal temperature					
Communication interface	Dry contact /RS232 /Intelligent Monitoring Software / SNMP (O)					
<b>ENVIRONMENTAL</b>						
Operating temperature	0 ~ 40°C					
Storage temperature	-25°C ~ 55°C					
Humidity range	0 ~ 95% (non condensing)					
Noise level	< 58dB (1m from surface)					
<b>PHYSICAL</b>						
Dimension W×D×H (mm)	310x590x870	409x798x1044		409x798x1044	555x741x1200	555x741x1200
Net Weight (kg)	115	125	200	236	290	315
<b>STANDARDS</b>						
Safety	IEC/EN62040-1; IEC/EN60950-1					
EMC	IEC/EN62040-2; IEC61000-4-2; IEC61000-4-3; IEC61000-4-4; IEC61000-4-5; IEC61000-4-6; IEC61000-4-8					

Specifications are subject to change without prior notice.

Mfd.By:



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