

## Durable Series

For data centers and mission critical systems

# DS-E33 LF 10K-160K

- **Programmable automatic regularly discharge activation feature:**

Program can be set through LCD panel of UPS and the period could be at least one month, at most four months.

Battery will be active to discharge through UPS automatically.

- **Accurate display for power supply time:**

Modify the parameters such as the capacity of the battery, load, service life and battery voltage so it makes the display time close to the actual value.

- **High reliable power component:**

The inverter is made of imported IGBT big power module, use special thick film integrate circuit for IGBT driving. Key parts such as breaker which is worldwide brand (ABB, Fuji, schneider, etc), all these promote the high reliability of DS-E33 LF series.

- **Storage battery multi-level protection:**

Equipped with multilevel protection of software and hardware about charge voltage, avoid battery damage led by large charge voltage.

- **Large charge current protection:**

When charge current found bigger than normal value, the rectifier would be locked to avoid battery damage led by large charge current.

- **Battery low voltage alarm, auto shut down protection**

- **Cold start function:**

DS-E33 LF series UPS equipped with battery cold start device, which make sure the equipment start automatically through battery under no utility.



DS40K-80KE33 LF

DS100K-160KE33 LF



DS10K-30KE33 LF

### Perfect UPS system protection functionality:

- Inverter output short circuit protection
- High voltage utility protection
- UPS input high and low voltage protection
- Battery polarity inverse connection protection
- Over temperature protection (rectifier, inverter, static bypass)
- Overload protection
- Battery over charge protection
- Over current protection (rectifier, inverter)
- Parallel wiring fault protection
- Wrong phase sequence, phase lost protection
- Mishandle manual maintenance switch protection

### Store capacity for 1000 items of historical record:

Records status information, parameter abnormalities, fault alarms, so as to analyze equipment failure.

### ECO function (bypass preference, project mode):

When the utility is comparatively stable (input voltage  $\pm 10\%$ , frequency  $\pm 3\%$ ), ECO function could be started under project mode, followed by the UPS running efficiency reaching over 98%.

### Double DSP digital control:

- Higher speed running, more precise
- Adopts double DSP chip dealing with rectifier and inverter
- Avoid the inherent parameter drift
- Strong systematic function, perfect protection.

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### Specifications

Model Name	DS10KE33 LF	DS20KE33 LF	DS30KE33 LF	DS40KE33 LF	DS50KE33 LF	DS60KE33 LF	DS80KE33 LF	DS100KE33 LF	DS120KE33 LF	DS160KE33 LF
Topology	True On-line, Double Conversion, Low Frequency									
On-Battery Output Waveform	Pure Sine Wave									
Maximum Capacity	10KVA / 9KW	20KVA / 18KW	30KVA / 27KW	40KVA / 36KW	50KVA / 45KW	60KVA / 54KW	80KVA / 72KW	100KVA / 90KW	120KVA / 108KW	160KVA / 144KW
<b>INPUT</b>										
Rectifier Constitution	three-phase-control rectify									
Voltage	380/400/415Vac ±25%									
Rectifier Frequency Range	40~70Hz									
Sync Frequency Tracking Range	50/60Hz ±10%									
Phase	3φ4W+GND									
Battery Voltage	348Vdc									
Charging Current	10-40A settable									
<b>OUTPUT</b>										
Phase	3φ4W+GND									
Voltage	L-N: 220/230/240Vac L-L: 380/400/415Vac ±1%									
Frequency	normal Main power: synchronous tracking automatically; abnormal Main power: 50/60Hz ± %(battery mode)									
Unbalance Three-Phase Voltage Stabilization With Full Load	≤2%, compatible 100%unbalance									
Wave Form	Sine wave, THD<3% at linear load									
Switch Time	0ms									
Efficiency	≥90%									
Overload Capacity	125% of rated load last for 10 mins, 150% of rated load last for 1min									
<b>PROTECTIONS</b>										
Maintenance Switch	Maintenance switch with no switch time									
Start-Up	provided with DC start up function									
Protect Function	Output short circuit, Overload, Over-temperature, battery low voltage, Output over/low voltage									
<b>ADVANCED WARNINGS / DIAGNOSTICS</b>										
Lcd Display	Input voltage/ Frequency, Output voltage, Battery voltage, Load, DC current etc.									
Led Display	Work status of UPS and fault indication									
Alarm Function	AC input abnormal, Low battery, Overload, Failure									
Battery Test Function	Present (for details see battery test control in LCD display operation)									
<b>COMMUNMENTAL</b>										
Communication Function	Modbus RS485, dry connection communication signal									
Snmp	SNMP slot (standard) / SNMP card (optional)									
<b>ENVIRONMETAL</b>										
Noise	<65dB									
Cooling	Fans									
Operating Temperature	0°C~40°C									
Relative Humidity	0~95%, No condensation									
<b>PHYSICAL</b>										
Dimension (W×D×H)	500×800×1180mm			800×800×1600 mm			1000×800×1800 mm		1000×800×1800 mm	
Weight (Net)	200kg	240kg	290kg	450kg	470kg	490kg	690kg	725kg	775kg	905kg

Specifications are subject to change without notice.