









Features

- · DSP control technology
- Supports fuel generator input
- · Input power factor ≥0.99
- Input current harmonic distortion <4%
- · Output power factor of 1
- · 50Hz/60Hz frequency conversion mode
- Emergency power-off function (EPO)
- · USB/RS-232 communication interfaces
- · LCD diaplay panel













Applications

- Data center
- Financial institution
- Smart Buildings
- · Industrial automation

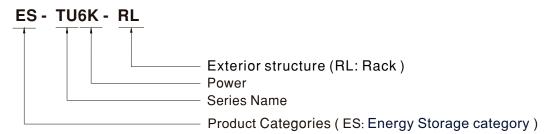
■ Global Trade Item Identifier

• MW Search: http://www.meanwell.com.cn/serviceGTIN.aspx

Description

The ES-TU6K-RL is a 6KVA online UPS system. providing rack type and tower type two appearance structures, using advanced digital control technology, combined with high integrated circuits and optimized design, enhance anti-interference ability, and ensure stable performance. The producthas a full load efficiency of up to 91%, an input power factor of over 0.99, and acurrentharmonic of less than 4%, which can effectively prevent additional energy loss and reduce grid pollution. Its ultra-wide voltage input range is compatible with unstable power grids and fuel generators, which can easily cope with harsh power environments, reduce the need for frequent switching to battery power, and accuratelymatch the needs of highly sensitive loads such as servers and medical equipment. In addition, the product has built-in EPO emergency power-off function and USB/RS-232 dual communication interfaces, which further strengthens the system security and remote control capabilities, It provides efficient, stable and flexible power protection solutions for key scenarios such as data centers, intelligent manufacturing, and communication base stations.

Model Encoding



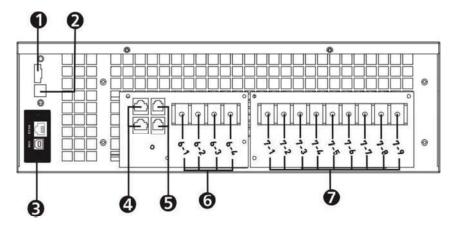


Specification		ES-TU6K-RL	ES-TU6K-RL					
INPUT								
Nominal Voltage)	100/200, 110/220, 120/2	100/200, 110/220, 120/208, 120/240, 127/220 VAC (2P+N+PE)					
Voltage Range			88-155VAC(L-N); 152-269VAC(L-L)					
Frequency Rang	16	40~70Hz						
Power Factor		≥0.99@100%load						
THDi			<4%@full linear load					
Battery								
Battery Voltage		±12V/9AH						
Numbers		8~10pcs(adjustable)*2						
Nominal Voltage)		±96V(12V*16pcs)					
Maximum Voltag		±120V(12V*20pcs)						
Minimum Voltag		±96V(12V*16pcs)						
Charging Voltag		±109V						
Charging Currer		±4A						
OUTPUT								
Power		6KVA/6KW						
Output Voltage			8, 120/240, 127/220VAC(2Ph	+N\				
AC Voltage Regu	lation	±1%	0, 120/240, 121/220VAO(2111	114)				
	Synchronized Range	46~54Hz/56~64Hz						
Frequency	Battery Mode	50/60±0.1Hz						
Waveform	Battery Mode	Pure Sinewave						
Harmonic Distor	<u> </u>							
marmonic distor	AC to Battery Mode	0	≤2%THD(Linear Load); ≤3%THD(Non-linear Load)					
Transfer Time	Inverter to Bypass							
	AC Mode	91%	0					
EFFICIENCY	ECO Mode	97%						
EFFICIENCI	Battery Mode							
SAFETY & EMC	Dattery wode	91%	91%					
	4000	LII 4770 0044 D40 47 00	A 000 N 407 0 44					
SAFETY STAND	ARDS	UL1778:2014 R10.17,CS		I				
		Parameter	Standard	Test Level / Note				
EMC EMISSION		Conducted emission	CFR47 FCC Part15 ICES-003 Issue 6 2017	Class A				
		Radiated emission	FCC 47 CFR Part15 ICES-003 Issue 7 2020	Class A				
OTHER								
Communication interface		RS232/USB	RS232/USB					
Phase		2 phase in/2 phase out						
Display		LCD						
Operating temperature		0~40°C						
Humidity		0-95%(non-condensing)	0-95%(non-condensing)					
Weight		17.6kg						
Size		678*418*129mm(3U)						
NOTE								
Derate c	apacity to 90% of capacity when the			laimer.aspx				



■ Rear panel View

■ ES-TU6K-RL



ES-TU6K-RL

- 1: Emergency power off function connector(EPO connector)
- 2: USB communication port
- 3: Intelligent slot
- 4: Parallel port (for parallel funcation)
- 5: Current sharing port (for parallel funcation)
- 6: Battery terminal
- 7: Input/Output terminal

■ Terminal Configuration

Battery Terminal Configuration

Model	Battery Terminal					
Model	6-1	6-2	6-3	6-4		
ES-TU6K-RL	BAT +	BAT-N	BAT -	_		

Input/Output Terminal Configuration

Madal	Input/Output Terminal								
Model	7-1	7-2	7-3	7-4	7-5	7-6	7-7	7-8	7-9
ES-TU6K-RL	I/P-R	I/P-N	_	I/P-T	PE	OP-L1	_	OP-L3	OP-N



■ Single UPS Installation

Installation and wiring must be performed in accordance with the local electric laws/regulations and execute the following instructions by professional personnel.

1) Make sure the mains wire and breakers in the building are enough for the rated capacity of UPS to avoid the hazards of electric shock or fire.

NOTE: Do not use the wall receptacle as the input power source for the UPS, as its rated current is less than the UPS's maximum input current. Otherwise the receptacle may be bured and destroyed.

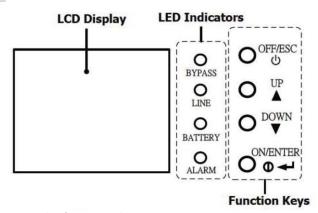
- 2) Switch off the mains switch in the building before installation.
- 3) Turn off all the connected devices before connecting to the UPS
- 4)Prepare wires based on the following table:

Madel	Wiring spec(AWG)				
Model	Input	Output	Battery	Ground	
ES-TU6K-RL	10	10	10	10	

NOTE 1: The cable should be able to withstand over 35A current, It is recommended to use10AWG or thicker wire for safety and efficiency.

NOTE 2: The selections for color of wires should be followed by the local electrical laws andregulations.

■ Button Operation



There are four buttons on the front panel.

Control Key	Description				
ON/ENTER	· Press this button to turn on the UPS				
ON/ENTER	· Or press it to confirm the selection in the menu				
055/500	· Press this button to turn off the UPS				
OFF/ESC	· Or press it to return to the last menu				
	· Press this button to select the previous item in the menu				
UP	· Or press this button to jump to previous page in the screen				
	· Or press this button to increase the number in the setting				
	· Press this button to select the next item in the menu				
DOWN	· Or press this button to jump to next page in the screen				
	· Or press this button to decrease the number in the setting				
UP+DOWN	· To allow LCD display to rotate 90 automatically, press these two buttons at the same time. This operation is used to configure the UPS in rack or tower display				



■ LED Indicators

There are 4 LEDs on front panel to show the UPS working status

LED Mode	BYPASS	LINE	BATTERY	ALARM
UPS Power On	•	•	•	•
standby mode	0	0	0	0
Bypass mode	•	0	0	0
Line mode / CVCF mode	0	•	0	0
Battery mode	0	0	•	0
Fault mode	0	0	0	•
Battery Test mode	0	•	•	0
ECO mode	•	•	0	0

■ Audible Alarm

UPS status	Buzzer status	Muted
Bypass mode	Beeping once every 2 minutes	
Battery / Battery-test mode (normal battery voltage)	Beeping once every 4 seconds	Vac
Battery/ Battery-test mode (low battery voltage)	Beeping once every second	Yes
Fault	Beeping continuously	
Warnings(except overload)	Beeping once every second	No
Overload	Beeping twice every second	No