

## SmartOnline 208/240 & 120V 6kVA 5.4kW Double-Conversion UPS, 6U Rack/Tower, Extended Run, Network Card Options, USB, DB9 Serial, Bypass Switch, Hardwire

### MODEL NUMBER: SU6000RT4UTFHW









# Description

Tripp Lite SU6000RT4UTFHW 6000VA / 6kVA / 5400 watt on-line, double-conversion UPS system offers complete power protection for critical server, network and telecommunications equipment in a 6U rack/tower compatible configuration. Full-time active power conditioning provides clean, continuous dual-conversion AC output free of voltage fluctuations, power interruptions and line noise. Fault-tolerant auto-bypass prevents unexpected service interruptions during UPS overload or internal fault conditions. Detachable back panel PDU with manual bypass switch supports hot-swappable UPS power module replacement with no interruption to connected equipment. 4U UPS power module and included 2U low-voltage transformer install in only 6 rack spaces total (6U) with a maximum installed depth of only 21.8 in. / 55.3 cm. Maintains full-time sine wave output within 2% of selectable 208/240V and 120V nominal at 60Hz during brownouts as low 100V and overvoltages as high as 300V. Expandable runtime is supported with optional BP192V12-3U external battery packs. Battery independent restart ensures automatic UPS power-up without userinteraction after lengthy power outages, even when batteries are expired and require replacement. Double-conversion operation converts raw input from AC to

#### **Highlights**

- 6kVA / 6000VA / 5400W on-line double-conversion UPS; 0.9 power factor
- 208/120V or 240/120V 60Hz output; Economy mode option
- 6U Rack/Tower installation;
   Hot-swappable power and battery modules
- USB, RS232 & EPO ports;
   Network management and contact-closure card options
- Front panel LEDs with detailed LCD monitoring and control screen
- Expandable runtime with optional external battery packs
- Hardwire input (3 wire); NEMA 5-15R, 5-15/20R & Hardwire outputs

#### Package Includes

- SU6000RT4UHVPM
   Hot-swappable UPS Power
   Module
- SUPDMB6KHW Detachable PDU with Maintenance Bypass Switch
- SU6000XFMR2U Low voltage transformer
- 1 x 6-ft. USB Cable
- 1 x 6-ft. Serial Cable
- 4 Post Rackmount Hardware (2 sets)

DC, then resynthesizes output power back to perfect sine wave AC with enhanced protection from harmonic distortion, fast electrical impulses and other hard-to-solve power problems not addressed by other UPS types. Highly efficient operation in optional economy mode significantly reduces BTU heat output and operating energy costs. Network-grade AC surge and noise suppression. Supports detailed monitoring of equipment load levels, self-test data and utility power conditions via built-in RS-232 and USB interfaces. Optional network management card options. HID-compliant USB interface enables integration with built-in power management and auto shutdown features of Windows and Mac OS X. PowerAlert monitoring software offers detailed site power and UPS updates with support for safe auto-shutdown of connected systems as UPS batteries become depleted. Supports Emergency Power Off (EPO) via built-in interface. Front panel LEDs and LCD readout with scroll controls support front-panel visual monitoring of all major UPS for a variety of control options to support advanced UPS settings and configurations. LED / LCD display panel rotates for viewing in rackmount or tower configurations. Hardwire input. Hardwire UPS output, plus 1 L6-30R, 8 5-15/20R and 4 5-15R outlets. External battery packs are field replaceable and hot swappable.\$250,000 Ultimate Lifetime Insurance (U.S., Canada, and Puerto Rico only)



Tripp Lite
1111 W. 35th Street
Chicago, IL 60609 USA
Telephone: 773.869.1234
www.tripplite.com

#### **Features**

- Tripp Lite SU6000RT4UTFHW 6000VA / 6kVA / 5400 watt on-line, double-conversion UPS system in a 6U rack/tower compatible configuration (4U power module plus 2U low-voltage transformer)
- Full-time active power conditioning maintains clean, continuous dual-conversion AC output free of voltage fluctuations, power interruptions and line noise
- Fault tolerant electronic bypass maintains utility output during a variety of UPS fault conditions
- Detachable back panel PDU contains input line cord connection, output receptacles and manual bypass switch to support hot-swappable whole UPS
  replacement with no interruption to connected equipment
- Hardwire input (208/240V L1, L2 + G)
- Hardwire high and low voltage output, plus 8 5-15/20R and 4 5-15R 120V outlets
- Included rail kit supports 4U 19 inch rackmount installation in 4 post racks
- Optional 2POSTRMKITHD supports installation in 2 post 19 inch racks (2 required for SU6000RT4UTFHW)
- Optional 2-9USTAND supports upright tower placement (1 required for SU6000RT4UTFHW)
- Maximum installed rack depth of only 21.8 in. / 55.3 cm
- Maintains full-time sine wave output within 2% of selected 208/240V and 120V nominal at 60Hz in double conversion mode
- Corrects brownouts to 156V at full load (100V at 50% load or less)
- Corrects overvoltages to 290V at full load (300V at 90% load or less)
- Double-conversion operation offers full-time AC to DC, then DC to AC conversion to maintain perfectly regulated sine wave AC output with enhanced
  protection from harmonic distortion, fast electrical impulses and other hard-to-solve power problems not addressed by other UPS types
- · High efficiency ECONOMY MODE operation significantly reduces BTU heat output and operating energy costs
- Network-grade AC surge and noise suppression
- Supports detailed monitoring of equipment load levels, self-test data and utility power conditions via built-in RS-232, USB and optional SNMP card slot interfaces
- Compatible with Tripp Lite UPS management card options TLNETCARD, WEBCARDLX, SNMPWEBCARD, MODBUSCARD and RELAYIOCARD
- Optional RELAYIOMINI interface module offers three configurable hard contact closure outputs for custom event notification (requires removal of USB interface module)
- HID-compliant USB interface enables integration with built-in power management and auto shutdown features of Windows and Mac OS X
- USB & Serial ports enable data-saving unattended shutdown when used with Tripp Lite's PowerAlert software, available via FREE download from www.tripplite.com/poweralert
- Front panel LEDs and LCD readout with scroll controls support front-panel visual monitoring of all major UPS functions with support for a variety of control options to support advanced UPS settings and configurations
- LED/LCD display panel rotates for viewing in rackmount or tower configurations
- Supports Emergency Power Off (EPO) via built-in interface
- Battery independent restart ensures automatic UPS power-up without userinteraction after lengthy power outages, even when batteries are expired and require replacement
- BP192V12-3U external battery packs are field replaceable and hot swappable
- · Intelligent battery management system with temperature-compensated charging extends battery life
- Some external battery configurations require the use of Tripp Lite's External Battery Configuration Software (see manual)
- \$250,000 Ultimate Lifetime Insurance (U.S., Canada, and Puerto Rico only)

## **Specifications**

ОИТРИТ	
Output Volt Amp Capacity (VA)	6000





2 minutes (5400 watts)
Single-Phase
40A (200/208v); 30A (220/230/240v)
3 wire single phase input (L1, L2, G)
Hardwire
Factory configured to 208V
208V AC; 240V AC
31.9A (200V), 30.6A (208V), 29A (220V), 27.7A (230V), 26.6A (240V)
Pure Sine wave
Pure Sine wave
Low voltage 20A breakers on the transformer module protect 4 5-15/20R outlets each; Low voltage 15A breakers protect 2 5-15/20R outlets each
Hardwire input and output connections are mounted on a detachable PDU backplate with bypass switch to enable hot-swappable power module replacement
(4) 5-15R; (8) 5-15/20R; (1) L6-30R; Hardwire
+/- 2%
+/- 10%
+/- 2%
Output frequency regulation +/- 0.05Hz (free running)
60 Hz
This configuration requires the Power Module be set to 208 or 240V output voltage; included step-down transforme supports 120V output (when the voltage-selection switch on the transformer module is set to match the 208 or 240V power module setting)
120V; 208V; 240V
3:1
0.9
Supports up to 105% load continuously in double conversion mode, 106 to 125% for 1 minute, 126% to 150% for 3 seconds; Loads over 150% trigger immediate bypass mode operation to support loads directly from mains power; Double conversion mode is automatically restored as the overload is cleared
5.4
5400





Half Load Runtime (min.)	8.5 minutes (2700 watts)		
Expandable Battery Runtime	Runtime is expandable with external battery packs		
External Battery Pack Compatibility	BP192V1037C-1PH; BP192V12-3U; BP192V1407C-1PH; BP192V557C-1PH; BP192V787C-1PH; BP192V5RT2U(limit 1)		
DC System Voltage (VDC)	192		
Battery Recharge Rate (Included Batteries)	6 hours from 10% to 90% (typical, full load discharge)		
Internal UPS Replacement Battery Cartridge	RBC5-192		
Battery Access	Front panel battery access door		
Battery Replacement Description	Hot-swappable, user replaceable internal batteries		
Expandable Runtime	Yes		
VOLTAGE REGULATION			
Voltage Regulation Description	Online, double-conversion power conditioning		
Overvoltage Correction	Corrects overvoltages as high as 300V (<90% load) and 280V (full load)		
Undervoltage Correction	Corrects undervoltages as low as 100 (<50% load) and 155V (full load); derates linearly		
USER INTERFACE, ALERTS & CONTROLS			
Front Panel LCD Display	Selectable LCD display with scroll and selection buttons enables UPS control and detailed monitoring options; LED/LCD panel rotates for viewing in rack/tower formats (see manual)		
Switches	Includes main power off/on switch, plus 2 switches to set and execute scrollable LCD functions. A manual bypass switch featured on the detachable PDU allows for complete removal of the UPS during routine maintenance without disrupting power to connected loads		
Alarm Cancel Operation	Alarm cancel switch		
Audible Alarm	Unique audible alarms for all major UPS, environmental and power conditions (see manual)		
LED Indicators	6 LEDs indicate line power, online mode, economy/bypass mode, on-battery, charger and AC output status; LCD screen offers additional information and control options		
SURGE / NOISE SUPPRESSION			
UPS AC Suppression Response Time	Instantaneous		
EMI / RFI AC Noise Suppression	Yes		
PHYSICAL			
Included Mounting Accessory Description	4 post rackmount installation accessories included (2 sets)		
Installation Form Factors Supported with Optional Accessories	2 post rackmount(2POSTRMKITHD); Tower(2-9USTAND)		
Optional Mounting Accessory Notes	2 sets of 2POSTRMKITHD required for 2 post rackmount installation of separate UPS and transformer components		
Primary Form Factor	Rackmount		
4/7			



UPS Power Module Dimensions (hwd, in.)	6.85 x 17.5 x 20.7		
UPS Power Module Dimensions (hwd, cm)	17.40 x 44.45 x 52.58		
Rack Height (U Spaces)	6		
Maximum Device Depth (in.)	21.8		
Minimum Required Rack Depth (inches)	28.7		
Maximum Device Depth (cm)	55.37		
Minimum Required Rack Depth (cm)	72.90		
UPS Power Module Weight (lbs.)	116.2		
UPS Power Module Weight (kg)	52.71		
Stepdown Transformer Dimensions (hwd / in.)	3.5 x 17.5 x 21.8		
Stepdown Transformer Dimensions (hwd / cm)	8.89 x 44.45 x 55.37		
Stepdown Transformer Weight (lbs.)	72.6		
Stepdown Transformer Weight (kg)	32.93		
UPS Shipping Dimensions (hwd / in.)	22.2 x 23.6 x 29.1		
UPS Shipping Dimensions (hwd / cm)	56.39 x 59.94 x 73.91		
Shipping Weight (lbs.)	232.1		
Shipping Weight (kg)	105.4		
Cooling Method	Fans		
UPS Housing Material	Steel		
Maximum Device Depth (mm)	554		
Minimum Required Rack Depth (mm)	729		
Stepdown Transformer Height (mm)	89		
Stepdown Transformer Width (mm)	444		
Stepdown Transformer Depth (mm)	554		
Primary UPS Height (mm)	174		
Primary UPS Width (mm)	444		
Primary UPS Depth (mm)	526		
Shipping Height (mm)	564		
Shipping Width (mm)	599		
Shipping Depth (mm)	739		
ENVIRONMENTAL	ENVIRONMENTAL		



Sprage Temperature Range   4:30 to 1434 degrees Fahrenheit / - 15 to +50 degrees Celsius		
Relative Humidity 0 to 95%, non-condensing  AC Mode BTU / Hr. (Full Load) 1767  AC Economy Mode BTU / Hr. (Full Load) 768  Battery Mode BTU / Hr. (Full Load) 2279  AC Mode Efficiency Rating (100% 2279  AC Mode Efficiency Rating (100% 200% 200% 200% 200% 200% 200% 200%	Operating Temperature Range	+32 to +104 degrees Fahrenheit / 0 to +40 degrees Celsius
AC Mode BTU / Hr. (Full Load)  AC Economy Mode BTICency Rating (100%  Load)  AC Economy Mode Efficiency Rating (100%  Load)  Audible Noise  Communications Interface  Load (100%  Additional contact closure support with optional RELAYIOCARD RELAYIOMINI interface cards. RELAYIOMINI installation requires removal of panel containing USB ports  PowerAlert Software  For local monitoring via the UPS's bull-in communication ports, download PowerAlert Local software at http://www.triplet.com/poweralert  Communications Cable  USB, D89 serial and EPO cables included  WatchDog Compatibility  Yes  LINE / BATTERY TRANSFER  Transfer Time (2006)  Bins. typical power failure response in optional economy mode  Low Voltage Transfer to Battery  Power (Setpoint)  Active (100%)  Load or less, derates linearly)  Efficiency Solving a Power Failure  Automatic inverter bypass; Hot swappable batteries; Hot swappable UPS power module; Manual bypass switch  High efficiency economy mode operation; Support for daily startup and shutoff; Schedulable daily hours of economy mode operation.	Storage Temperature Range	+5 to +122 degrees Fahrenheit / -15 to +50 degrees Celsius
AC Economy Mode BTU / Hr. (Full Load)  2279  AC Mode Efficiency Rating (100% Load)  AC Economy Mode Efficiency Rating (100% Load)  Audible Noise  60 dBA at front side 1 meter  Operating Elevation (m)  0-3000 m  COMMUNICATIONS  COMMUNICATIONS  COMMUNICATIONS  Communications Interface  USB (HID enabled): DB9 Serial; EPO (emergency power off); Sict for SNMP/Web interface  Network Management Cards  SNMP/WEBCARD: TLNETCARD: WEBCARDLX: MODBUSCARD: RELAYIOCARD  Network Management Cards  SNMPWEBCARD: TLNETCARD: WEBCARDLX: MODBUSCARD: RELAYIOCARD  Additional contact closure support with optional RELAYIOCARD and RELAYIOMINI interface cards. R	Relative Humidity	0 to 95%, non-condensing
Battery Mode BTU / Hr. (Full Load) 2279  AC Mode Efficiency Rating (100% 90% 90% 90% 96% 96% 96% 96% 96% 96% 96% 96% 96% 96	AC Mode BTU / Hr. (Full Load)	1767
AC Economy Mode Efficiency Rating (100% Load) 96% AC Economy Mode Efficiency Rating (100% Load) 96% (100% Load) 96% Operating Elevation (ft.) 0-3000m (0 to 10,000 ft.) Audible Noise Operating Elevation (m) 0-3000 m  COMMUNICATIONS  Communications Interface USB (HID enabled); DB9 Serial; EPO (emergency power off); Slot for SNMP/Web interface Network Management Cards SNMPWEBCARD: TLNETCARD: WEBCARDLX: MODBUSCARD: RELAYIOCARD Network Monitoring Port Description Network Monitoring Port Description Network Monitoring Port Description PowerAlert Software For local monitoring via the UPS's built-in communication ports, download PowerAlert Local software at http://www.tripplite.com/poweralert Communications Cable USB, DB9 serial and EPO cables included WatchDog Compatibility Yes  LINE / BATTERY TRANSFER  Transfer Time No transfer time (0 ms.) in online, double-conversion mode Brass. typical power failure response in optional economy mode Low Voltage Transfer to Battery Power (Serpoin) 156V (full load) / 100V (50% load or less, derates linearly) High Voltage Transfer to Battery Power (Serpoin) 280V (full load) / 300V (90% load or less, derates linearly) High Voltage Transfer to Battery Power (Serpoin) 280V (full load) / 300V (90% load or less, derates linearly) High Voltage Transfer to Battery Power (Serpoin) 280V (full load) / 300V (90% load or less, derates linearly) High Availability UPS Features Automatic inverter bypass; Hot swappable batteries; Hot swappable UPS power module; Manual bypass switch High Availability UPS Features High efficiency economy mode operation; Support for daily startup and shutoff; Schedulable daily hours of economy mode operation; Support for daily startup and shutoff; Schedulable daily hours of economy		768
AC Economy Mode Efficiency Rating (100% Load) 96%  Operating Elevation (ft.) 0-3000m (0 to 10,000 ft.)  Audible Noise 60 dBA at front side 1 meter Operating Elevation (m) 0-3000 m  COMMUNICATIONS  Communications Interface USB (HID enabled); DB9 Serial; EPO (emergency power off); Slot for SNMP/Web interface Network Management Cards SNMP/WEBCARD: TLNETCARD: WEBCARDLX: MODBUSCARD: RELAYIOCARD Network Monitoring Port Description Additional contact closure support with optional RELAYIOCARD and RELAYIOMINI installation requires removal of panel containing USB ports PowerAlert Software For local monitoring via the UPS's bull-in communication ports, download PowerAlert Local software at http://www.tripplite.com/poweralert Communications Cable USB, DB9 serial and EPO cables included WatchDog Compatibility Yes  LINE / BATTERY TRANSFER  Transfer Time No transfer time (0 ms.) in online, double-conversion mode 8ms. typical power failure response in optional economy mode Low Voltage Transfer to Battery Power (Serpoin) 156V (full load) / 100V (50% load or less, derates linearly) Power (Serpoin)  SPECIAL FEATURES  Cold Start (Startup in Battery Mode During a Power Failure) Cold-start operation supported High Availability UPS Features Automatic invertor bypass; Hot swappable batteries; Hot swappable UPS power module; Manual bypass switch High efficiency economy mode operation; Support for daily startup and shutoff; Schedulable daily hours of economy mode operation.	Battery Mode BTU / Hr. (Full Load)	2279
Operating Elevation (ft.)  Operating Elevation (		90%
Audible Noise 60 dBA at front side 1 meter  Operating Elevation (m) 0-3000 m  COMMUNICATIONS  Communications Interface USB (HID enabled); DB9 Serial; EPO (emergency power off); Slot for SNMP/Web interface  Network Management Cards SNMPWEBCARD; TLNETCARD; WEBCARDLX; MODBUSCARD; RELAYIOCARD  Network Monitoring Port Description installation requires removal of panel containing USB ports  PowerAlert Software For local monitoring via the UPS's built-in communication ports, download PowerAlert Local software at http://www.tripplite.com/poweralert  Communications Cable USB, DB9 serial and EPO cables included  WatchDog Compatibility Yes  LINE / BATTERY TRANSFER  Transfer Time No transfer time (0 ms.) in online, double-conversion mode  Transfer Time (Economy Mode) 8ms. typical power failure response in optional economy mode  Low Voltage Transfer to Battery Power (Setpoint) 156V (full load) / 100V (50% load or less, derates linearly)  PSECIAL FEATURES  Cold Start (Startup in Battery Mode During a Power Failure) Automatic invertior supported  High Availability UPS Features Automatic invertior supports of the wappable batteries; Hot swappable UPS power module; Manual bypass switch  High Availability UPS Features High efficiency economy mode operation; Support for daily startup and shutoff; Schedulable daily hours of economy mode operation		96%
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Network Management Cards  Network Management Cards  Network Management Cards  Network Monitoring Port Description  Network Monitoring Port Description  Network Monitoring Port Description  PowerAlert Software  For local monitoring via the UPS's built-in communication ports, download PowerAlert Local software at http://www.tripplite.com/poweralert  Communications Cable  WatchDog Compatibility  Ves  LINE / BATTERY TRANSFER  Transfer Time  No transfer time (0 ms.) in online, double-conversion mode  Transfer Time (Economy Mode)  Bass. typical power failure response in optional economy mode  Low Voltage Transfer to Battery Power (Setpoint)  166V (full load) / 100V (50% load or less, derates linearly)  Power (Setpoint)  SPECIAL FEATURES  Cold Start (Start Ups In Battery Mode)  Dight Availability UPS Features  Automatic inverter bypass; Hot swappable batteries; Hot swappable UPS power module; Manual bypass switch  High Availability UPS Features  High ficiency economy mode operation; Support for daily startup and shutoff; Schedulable daily hours of economy mode operation	Operating Elevation (m)	0-3000 m
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Transfer Time (Economy Mode)  8ms. typical power failure response in optional economy mode  Low Voltage Transfer to Battery Power (Setpoint)  High Voltage Transfer to Battery Power (Setpoint)  280V (full load) / 300V (90% load or less)  SPECIAL FEATURES  Cold Start (Startup in Battery Mode During a Power Failure)  Cold-start operation supported  High Availability UPS Features  Automatic inverter bypass; Hot swappable batteries; Hot swappable UPS power module; Manual bypass switch  Green Energy-Saving Features  High efficiency economy mode operation; Support for daily startup and shutoff; Schedulable daily hours of economy mode operation	LINE / BATTERY TRANSFER	
Low Voltage Transfer to Battery Power (Setpoint)  High Voltage Transfer to Battery Power (Setpoint)  280V (full load) / 300V (90% load or less)  SPECIAL FEATURES  Cold Start (Startup in Battery Mode During a Power Failure)  High Availability UPS Features  Automatic inverter bypass; Hot swappable batteries; Hot swappable UPS power module; Manual bypass switch  Green Energy-Saving Features  High efficiency economy mode operation; Support for daily startup and shutoff; Schedulable daily hours of economy mode operation	Transfer Time	No transfer time (0 ms.) in online, double-conversion mode
Power (Setpoint)  High Voltage Transfer to Battery Power (Setpoint)  280V (full load) / 300V (90% load or less)  SPECIAL FEATURES  Cold Start (Startup in Battery Mode During a Power Failure)  High Availability UPS Features  Automatic inverter bypass; Hot swappable batteries; Hot swappable UPS power module; Manual bypass switch  Green Energy-Saving Features  High efficiency economy mode operation; Support for daily startup and shutoff; Schedulable daily hours of economy mode operation	Transfer Time (Economy Mode)	8ms. typical power failure response in optional economy mode
SPECIAL FEATURES  Cold Start (Startup in Battery Mode During a Power Failure)  High Availability UPS Features  Automatic inverter bypass; Hot swappable batteries; Hot swappable UPS power module; Manual bypass switch  Green Energy-Saving Features  High efficiency economy mode operation; Support for daily startup and shutoff; Schedulable daily hours of economy mode operation		156V (full load) / 100V (50% load or less, derates linearly)
Cold Start (Startup in Battery Mode During a Power Failure)  High Availability UPS Features  Automatic inverter bypass; Hot swappable batteries; Hot swappable UPS power module; Manual bypass switch  Green Energy-Saving Features  High efficiency economy mode operation; Support for daily startup and shutoff; Schedulable daily hours of economy mode operation		280V (full load) / 300V (90% load or less)
During a Power Failure)  High Availability UPS Features  Automatic inverter bypass; Hot swappable batteries; Hot swappable UPS power module; Manual bypass switch  Green Energy-Saving Features  High efficiency economy mode operation; Support for daily startup and shutoff; Schedulable daily hours of economy mode operation	SPECIAL FEATURES	
Green Energy-Saving Features  High efficiency economy mode operation; Support for daily startup and shutoff; Schedulable daily hours of economy mode operation		Cold-start operation supported
mode operation	High Availability UPS Features	Automatic inverter bypass; Hot swappable batteries; Hot swappable UPS power module; Manual bypass switch
CERTIFICATIONS	Green Energy-Saving Features	High efficiency economy mode operation; Support for daily startup and shutoff; Schedulable daily hours of economy mode operation
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Tripp Lite
1111 W. 35th Street
Chicago, IL 60609 USA
Telephone: 773.869.1234
www.tripplite.com

UPS Certifications	Tested to UL1778 (USA); Tested to CSA (Canada); Meets FCC Part 15 Category A (EMI); ROHS (Restriction of Hazardous Substances)	
UPS Certification Details	IEC 61000-4-5 1995 B Surge Immunity	
WARRANTY		
Product Warranty Period (Worldwide)	2-year limited warranty	
Connected Equipment Insurance (U.S., Canada & Puerto Rico)	\$250,000 Ultimate Lifetime Insurance	

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