

UPS CATALOGUE

DRAGON POWER



www.lbspower.com



DRAGON POWER 1 600VA-2 kVA

UPS TOWER INTERACTIVE

The Dragon Power (600VA-2 KVA) interactive series is a device that is of great help in domestical applications, private users and small businesses.

This line has adopted digital online technology. Ideal for backing up computers and electronics at home and offices.

With a compact and silent design. the Dragon Power 1 (600VA-2kVA) line is very easy to operate.







Office

Home

AVR boost and buck.

- Cold start function.
- Smart RS232/USB interface for. power management.
- Built-in Self-diagnostic function.
- Modem/LAN internet protection.
- Compatible with generator set (optional)
- LCD or LED panel for option.
- Fastest charging capacity
- · Auto charging at off mode
- Auto-restart\ function













Product that offers excellent quality and value for your money.

Aimed primarily at an audience of private users and professional firms.

Ideal to protect:

- Computers
- Peripherals (modems, fiber optics, satellite decoders)
- Home automation systems
- Alarm Systems
- Web Cameras







Acoustic Alarm



Protected Electronics



Compact Design









CHARACTERISTICS	MODELS					
	DP1-IN-600T-120	DP1-IN-800T-120	DP1-IN-1000T-120	DP1-IN-2000T-120		
		INPUT				
VOLTAGE (VAC)		110/120 VAC ó	220/230/240 VAC			
VOLTAGE RANGE		81-145 VAC	/162-290 VAC			
FREQUENCY RANGE		50/60 H	tz (±10%)			
	_	O U	TPUT			
VOLTAGE RANGE		Simulated sine wave a	Il nominai voltage ± 10%			
FREQUENCY RANGE		50 or 6	OHz ± 1Hz			
TRANSFER TIME		2-6 ms, 10 ms max				
	BATTERIES					
TYPE AND NUMBER	12V/7Ah x 1	12V/9Ah x 1	12V/7Ah x 2	12V/9Ah x 2		
RECHARGE TIME	6-8 horas (90% of full capacity					
	OTHERS					
	AC Mode (Green LED lighti level} LE01 (green): >100% lo >25% load level	ng):The 5th Green LED ligh: oad level LE02 (green): > 759	ting (The 1 st to 4th green LEE 6 load level LE03 (green): >509	D lighting to indicate load % load level LE04 (green):		
INDICATORS	Battery Mode (Amber LED flashIng): The 5st green blinking (The 1 st lo 4th green LED lighling to indicate battery capacity) LEO1 (green): battery vollage > 25V LED2 (green): baltery voltage > 23V LED3 (green): battery vollage > 21V					
	Fault (Red LED lighting)					
ALARM	Battery Mode: Sounding every 10 seconds Low Battery: Sounding every second Overload: Sounding every 0.5 seg Battery Replacement: Sounding every 2 seg Fault: Continously sounding					
INTERFACE	USB/RS-232 (opcional),Supports Windows® 2000/2003/, <pnista 2008,="" 7,="" and="" linux,="" mac<="" th="" unix,="" windows®=""></pnista>					
SAFETY	IEC/EN62040-1;IEC/EN60950-1.					
NOISE	<40dB@1m					
WORKING TEMPERATURE	0~40°C					
RELATIVE HUMIDITY	0 ~ 90%, no condensation					
DIMENSIONS mm (DxWxH)	100x 287x 142		146x397x205	380x158x198		
WEIGHT (KG)	4.25	4.9	7.8	11.5		
CERTIFICATIONS	IEC/EN62040-2;1EC61000-4-2;1EC61000-4-3; IEC61000-4-4;1EC61000-4-5;1EC61000-4-6;1EC61000-4-8					



DRAGON POWER 1 1-3 kVA

UPS RACK/TOWER DOUBLE CONVERSION

The 1-3 KVA Dragon Power 1 Series (1-3 kVA) features a design that allows it to be converted to a rack or tower.

supports economic mode operation (ECO) that makes it more adaptable to your needs. The patented Mimic LCD screen can be rotated by simply pressing the front button. This screen allow monitoring and accessing the status of the UPS, you can also estimated check the remainig in that space.















Finance Telecom Energy

Medical Government

- Output power factor 0.9 PF.
- SNMP works with USB or RS-232 together.
- Hot swappable battery.
- Battery pack required.Optional powerful charger.
- Cold start.
- Power outage may turn off the non-critical load in the backup battery.
- Emergency shutdown.
- The frequency converter mode can be configured.













UPSs are available with internal batteries or combined with external battery cabinets for longer life.

Ideal to protect:

- Servers
- Surveillance Systems
- · Medical equipments
- · CCTV
- Industry



Hot Swappable Battery Pack



3 Level inverter Technology



LCD Digital Display moved vertically and horizontally



Technology digitally controlled



Rack/ Tower compact design



Smart RS232+ USB+EPO Interface



95.5% AC/AC Efficiency



ECO Function



CHARACTERISTICS	MODELS				
	DP1OL-1KTR-120	DP1OL-1,5KTR-120	DP1OL-2KTR-120	DP10L-3KTR-120	
	INPUT				
VOLTAGE (VAC)	80-145 VAC @ Full Load 70-145 VAC @70%< load ≤ 80% 60-145 VAC @ 60%< load ≤ 70% 55-145 VAC@< load ≤ 60%				
FREQUENCY (HZ)		44Hz-55Hz@50Hz/55-66	6 Hz@60Hz (auto-detect)		
POWER FACTOR		≥0	.99		
THDi		<5	5%		
		OUT	PUT		
CREST		3	il .		
EFFICIENCY MAX AC/AC	AC Mode: 93% Battery Mode: 90% ECO Mode: 98%				
POWER FACTOR		C).9		
VOLTAGE (VAC)		100/110/115,	/120/127 Vac		
FREQUENCY (HZ)	46/54 Hz@50Hz/56-64Hz@60 Battery Mode: 50/60Hz				
THDu	≤3% (linear) ; ≤5% (no-linear)				
OVERLOAD CAPABILITY	30S @ 100%-150%; 300ms @>150%				
	BATTERIES				
VOLTAGE (VDC)	24	36	48	72	
BATTERY TYPE		12V,9	Ah		
BACKUP TIME	10 min				
BATTERY EFFICIENCY	85%				
	OTHERS				
INTERFACE	External modbus card supported by RS232, Software supports Windows Family, Linux, FreeBSD				
DISPLAY LCD	LED + LCD				
ALARM	Low Battery, Abnormal AC Input, UPS failure, etc				
PROTECTION	Low Battery, Overload, Short Circuit and Overheating, etc				
NOISE (DB)	<50dB@ 1m				
WORKING TEMP (°C)	0~40°C				
RELATIVE HUMIDITY	0 ~ 90%, no condensation				
DIMENSIONS (W D H) mm	440 x 430 x 86.5 440x542x86.5 440x720x86.5				
WEIGHT (kg)	13.9	17.8	20.1	23.3	



DRAGON POWER 2 6-10 kVA

UPS RACK/TOWER DOUBLE CONVERSION

The Dragon Power 2 series of 6 kVA is a double conversion technology for effectively isolate disturbances network and allows longer uptime loading activity.

Patented modular design to improve flexibility of expansion and energy maintenance. Simply removing all four screws in the connector housing, the power module can be removed















Bank

Telecom Datacenter Medical Government

- Output power factor 1.0 PF
- 50/60 HZ convertible mode frequency.
- ECO mode for energy saving.
- DSP technology guarantees high
- reliability.
 Compatible to connect a
- generator.
 Multiple UPS can form easily a complete system according to
- customers demand.
 In case of any emergency or fire, control mechanism EPO can instantly turn off the system.











CHARACTERISTICS	MODELS			
	DP2OL-6KTR-208			
	INPUT			
VOLTAGE (VAC)	100/200, 110/220, 120/208, 120/240, 127/220 VAC (2P+N+PE)			
VOLTAGE RANGE	88-155 VAC (L-N) 152-269 VAC (L-L)			
FREQUENCY (HZ)	40 Hz-70 Hz			
POWER FACTOR	≥0.99			
THDi	<4%			
	ОИТРИТ			
CREST	3:1			
EFFICIENCY MAX	Modo AC:91% Modo Batería: 91% Modo ECO:97%			
POWER FACTOR	1.0			
VOLTAGE (VAC)	100/200, 110/220, 120/208, 120/240, 127/220 VAC (2P+N)			
FREQUENCY(HZ)	50/60 Hz			
THDu	<2% (Carga lineal), <3% Carga no lineal)			
WAVE FORM	Onda sinoidal			
	BATTERIES			
VOLTAGE (VDC)	±12V/9Ah			
BATTERIES NUMBER	8-10 piezas (ajustable) x2			
CHARGING CURRENT	±4 A			
RECHARGE TIME	9 horas para recobrar el 90% de capacidad			
	OTHERS			
INTERFACE	Standard: Smart RS-232/USB: Windows 2000/2003/XP/Vista/2008/7/8/10, Linux and MAC Opcional: SNMP, Kit de Paralelaje,			
DISPLAY	LCD+LED			
ALARM	Batería Baja, Entrada de AC anormal, Falla de UPS			
IP CLASS	IP20			
NOISE (DB)	<65dB@ 100% carga, 62 dB@ 45%carga			
WORKING TEMP (°C)	0~40°C			
RELATIVE HUMIDITY	0 ~ 95%, (no condensación)			
DIMENSIONS (W D H)	678x418x129 (3U)			
WEIGHT (KG)	17.6			



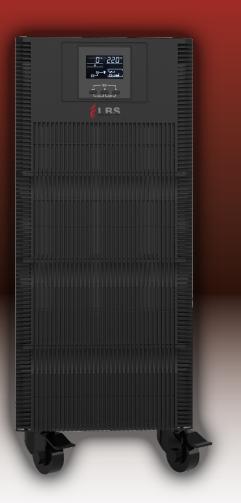
DRAGON POWER 2 10 <u>kV</u>A

UPS TOWER DOUBLE CONVERSION

The Dragon Power Series 2 of 10 KVA is an online technology of double conversion.

This UPS has advanced technology and provides a power factor >99%.

LCD screen allows the interaction with Dragon Power 2 of 10 KVA in a simple and efficient way.















Telecom Datacenter Offices

- True Online double-conversion technology.
- Wide Input Voltage Range.
- DSP and 3 level technology.
- Advanced PFC technology, input PF>99%
- Cold Start.
- Automatic battery charging on/off mode.
- Lighting and surge protection.
- LČD Display
- Support Generator Connection Smart slot for mission critical applications











CHARACTERISTICS

CHARACTERISTICS				
	DP2OL-10KT- 208			
	INPUT			
VOLTAGE (VAC)	208/220/230/240Vac, L1+L2+PE			
VOLTAGE RANGE	110~300VAC			
FRECUENCY (HZ)	44 Hz-56 Hz o 54Hz-66 Hz			
POWER FACTOR	≥0.99			
THDi	≤3% THD (Linear Load) ≤5%THD (No Linear Load)			
	OUTPUT			
VOLTAGE (VAC)	208/220/230/240Vac o 110/115/120Vac, isolated transformer output			
EFFICIENCY MAX	AC Mode:93% Battery Mode: 92% ECO Mode:98%			
VOLTAGE REGULATION	±1%			
CREST	3:1			
FRECUENCY (HZ)	50/60Hz±0.1%			
THDu	<2% THD (Linear Load), <4%THD (No Linear Load)			
TRANSFER TIME	Electric mode to battery mode 0ms, Inverter mode to bypass mode 4ms			
	BATTERIES			
VOLTAGE (VDC)	192Vdc-240Vdc			
NUMBER BATTERIES	12Vdc 9AH * 16 pcs (20 pcs)			
CHARGE CURRENT	1A (1-12A configurable)			
	OTHERS			
INTERFACE	Standard: Smart RS-232/SNMP Card (optional) / USB Port / AS400 (optional)			
ALTITUDE	The altitude should not exceed 1000m, and the height above 1000m should be reduced to a maximum of 4000m. Refer to IEC62040			
NOISE (DB)	≤50 dB at 1 meter			
OPERATION TEMP (°C)	0~40°C			
HUMIDITY	0 ~ 95%, (no condensation)			
DIMENSIONS (W D H)	250x523x859			
WEIGHT (KG)	121			



DRAGON POWER 3 10-15 kVA

UPS RACK/TOWER DOBLE CONVERSIÓN

Online UPS Rack/ Tower type, the Dragon Power 3 Series (10-15 KVA) is a double conversion online UPS with fully DSP controlled technology.

With its flexible configuration of 3/3 and 3/1, compact design, it's the ideal choice for modern Datacenter.





Aplicaciones











Bank

Telecom Datacenter Medical Government

- Rack design, compatible with 19" standard rack cabinet, convenient to be integrated with servers.
- Friendly interface: 5.5" touch color LCD with graphic display, more information displayed and easier for customer to operate.
- Intelligent charging management. The system intelligently control the whole process of the charging and discharging, effectively improving the life of battery.













This UPS has adopted the most innovative technologies with 3 IGBT levels guaranteeing an efficiency of 96% and a unit power factor.

Includes a distribution module and manual bypass for easy maintenance

Ideal to protect:

- Datacenters
- Servers
- Medical Equipment and Hospital use



Number of Batteries (24-40) and charging current adjustable



Parallelable Rack UPS up to 4 units





Easy Transportation and Instalation



Tower or Rack Compact Design



Display Configuration 1:1, 3:1, 3:3



ECO Mode Configuration



UPS for Rack Cabinets



Comunication RS485 inteligente+EPO Interface



CHARACTERISTICS	MODELS			
	DP3OL-10KTR-220	DP3OL-15KTR-220		
	INPUT			
VOLTAGE (VAC)	3 Phase + Neutral+ Ground 208/220V (line-line)			
VOLTAGE RANGE	166-261 VAC @ Full Load 166-125 VAC (L-L) Load Derated Linearly			
FREQUENCY (HZ)	40 F	Hz-70 Hz		
POWER FACTOR	≥C	.99		
THDi	<4%	<3%		
	OUT	PUT		
CAPACITY	10	15		
EFFICIENCY MAX AC/AC	AC Mode:95% Battery Mode: 94.5%	AC Mode:95.5% Battery Mode: 95%		
POWER FACTOR	C	0.9		
VOLTAGE (VAC)	208V	//220V		
FREQUENCY (HZ)	50/6	50 Hz		
THDu	<1.5% (Linear Load),	<6% non- linear Load)		
CAPACIDAD SOBRECARGA	110% for 60 min; 125% for 10 min; 150% for 1 min;> 150% for 200ms			
	ВАТТ	ERIES		
VOLTAGE (VDC)	±120	VDC		
CHARGE POWER	20% System Power			
VOLTAGE PRECISION	1%			
	OTHERS			
	Standard: RS232, RS485, Dry Contacts Option: SNMP, Parallel Kit, USB			
INTERFACE	LCD+LED+ Keyboard			
DISPLAY	Low Battery, Abnormal AC input, UPS Failure etc			
ALARM	IP20			
IP CLASS	<65dB@ 100% load, 62 dB@ 45%load			
NOISE (DB)	0~40°C			
OPERATION TEMP(°C)	0 ~ 95%, non- condensing			
RELATIVE HUMIDITY	485 x 750x 130 440x542x86.5			
DIMENSIONS (W D H) mm	25 30			



DRAGON POWER 3 30-300 kVA

MODULAR UPS DOUBLE CONVERSION

The Dragon Power 3 series modular UPS of (30-300 kVA) provides the compact footprint of less than 4.5 m² with maximum capacity of 900 KVA in parallel, designed to protect any critical load for medium and larger Datacenter achieving maximum availability.

The Dragon Power 3 (30-300 kVA) series feature the latest technology of 3 level.















Bank

Telecom Datacenter Medical Industry

- It has input Power Factor control, which guarantees a high efficiency of 94%
- Ultra-reliable UPS that makes it an excellent choice for medium and large installations.













Is designed for medium and large Datacenters. Configurable directly from the display, wide flexibility and high overload capacity. The self cleaning function reduces the risk of dust accumulation on cards.

Ideal to protect:

- Healthcare Centers
- Datacenters
- Industrial Automotation Processes
- Servers



Module Swappable System



Host and Battery are equipped with double reliable protection





IGBT Technology



Small Footprint, only 0.5 square meters





Parallel Redundancy and Parallel scaling mode



ECO Function



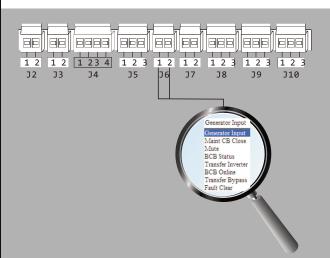


INDEPENDENT LCD

Each power module has an independent LCD, gives users direct overview of status data and alarms in real time.



DRY CONTACTS



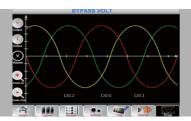
Programmable dry contacts are available in all Dragon Power 3 UPS. Customers can easily expand or modify the definition of each port.

Abundant options with three inputs and four outputs, all programmable.

Easy setting, just pull the drop-down menu and set. Compatible with all the Dragon Power 3 Series.

EASY MONITORING

In each power module, information of critical components is monitored and dis played in real time, giving customers a view of inner status of the system and providing reminder information for maintenance. Maintenance reminder, running time of capacitors and fans are recorded.



FRIENDLY INTERFACE

10.4" touch color LCD with comprehensive graphical information of operation, easier for customer to maintenance.

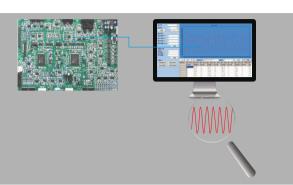




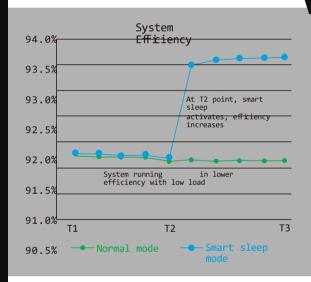
WAVEFORM RECORD

UPS can record and save the data of the main parameters automatically when faults happen for further analysis.

Can record data information and present as waveform for further analysis. Can easily spot the causes of the failures, avoid future similiar faults.



SMART SLEEP



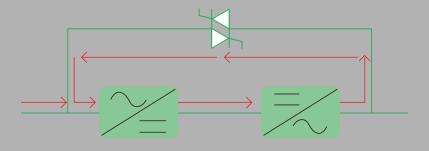
Smart Sleep function can intelligently make some power modules go to sleep when load is relatively low, improving the efficiency of the remaining power modules and saving customers on power and cooling costs.

Improvingefficiency,reducingpowerandcooling costs. Easy setting with just two steps. Customers can select sleep mode and rotation period. Power modules working in rotation, prolong the life time.

SELF AGING

Self-aging is an advanced function applied in all three pase UPS. Self-aging function can test UPS under different load situation without real load, saving more than 90% of energy.

Simulate different load conditions without connecting to any real load, saving more then 90% of energy. On site setting supported, easy for factory testing.





DRAGON POWER 3 40-400 kVA

MODULAR UPS DOUBLE CONVERSIÓN

The Dragon Power 3 series modular UPS provides the most compact footprint of less than 2 m² with maximum capacity of 600 KVA in parallel. With best reliability and high performance, it has been a market leader for years.

The Dragon Power 3 series is considered to be the best power protection solution for large datacenters, as well as for sensitive electronics.















Banks Telecom Datacenter Medical Government

- Output Power Factor: 1.0 PF
- Multi communication interface.
- High Scalability: From 40 KVA to 400 KVA in one single cabinet.
- Efficiency: 96%
- Friendly Interface.
- Smart Sleep function.
- Intelligent charging management to improve the life time of battery.













Is designed for medium and large Datacenters. Configurable directly from the display, wide flexibility and high overload capacity. The self cleaning function reduces the risk of dust accumulation on cards.

Ideal to protect:

- Healthcare Centers
- Datacenters
- Industrial Automotation Processes
- Servers



Module Swappable System



Host and Battery are equipped with double reliable protection



grid



IGBT Technology



Small Footprint, only 0.5 square meters





Parallel Redundancy and Parallel scaling mode



ECO Function



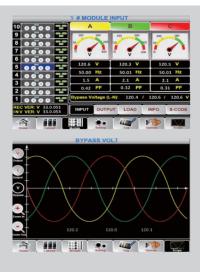


INDEPENDENT LCD

Each power module has an independent LCD, that gives users direct overview of status data and alarms in real time.



FRIENDLY INTERFACE

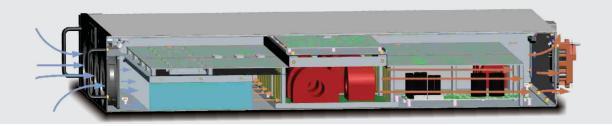


Provides graphical and text based information of alarms, status data and instructions for users to provide more friendly and safer operation.

ISOLATED AIR FLOW

The dedicated and redundant hot-swappable power modules take the most unique structure design. In this illustration the PCB boards and heat sinkers are in two completely different layers, which allows the UPS run in dusty environments, significantly improving its stabilibty and environmental adaptability.

Cooling air flows in the lower layer, keeping the upper PCB free of dust. One air flow channel ensures fans redundancy, even if one fan fails, power module can run normally.

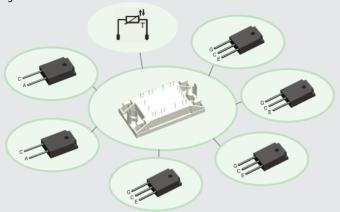




HIGH RELIABILITY

Instead of discrete IGBT and SCR components, Dragon Power 3 series (40-400 kVA) UPS uses modular IGBT and SCR in Rectifier and Inverter, bringing in extremely high reliability. All components in one module, less fault points, higher reliability.

All components integrated as one modular design, smaller disparity, and less space needed. UPS with compact design and higher power design. Integrated inner thermal sensors, display IGBT inner temperature directly.



HIGH DENSITY



40 KVA power module in 4 U height, easy for HH capacity expansion.

HIGH SCALABILITY

The system can be configured from 40 KVA to 400 KVA in one single cabinet, 3 units in parallel for a capacity up to 1200 KVA.









CHARACTERISTICS	MODELS				
	DP3OL-80KM-480	DP3OL-160KM-480	DP3OL-240KM-480	DP3OL-320KM-480	DP3OL-400KM-480
			INPUT		
POWER MODULE	40 KVA / 40 KW				
VOLTAGE (VAC)	480V/277V				
VOLTAGE RANGE	384-528Vac (líne-líne), ful load; 288-384 Vac (lìne-lìne), load decreases linearly according to the min phase voltage.				
FREQUENCY (HZ)	50-60Hz				
POWER FACTOR			≥0.99		
THDi			<3%		
			OUTPUT		
CREST			3:1		
EFFICIENCY MAX			AC Mode: 96% Battery Mode: 95%		
POWER FACTOR			1.0		
VOLTAGE (VAC)			480 Vac		
FREQUENCY (HZ)			50/60 Hz		
THDu		≤1% (linear) ; ≤5.5% (no-linear)			
WAVEFORM	110% for 1 hour;125% for 10 min; 150% for 1 min; >150% for 200 ms				
	BATTERIES				
VOLTAGE (VDC)			±240 VDC		
BATTERY NUMBER	40 pieces				
VOLTAGE PRECISION	± 1%				
EFFICIENCY	up to 20% *Output active power				
	OTHERS				
INTERFACE		Standard: Optional: SNMP C	RS232, RS485,Dry Conta ard, Parallel Kit, SPD, LE	icts, USB 3S, Dust Filter	
DISPLAY	10.4" LCD touch screen +LED+ Keyboard				
ALARM	Low Battery, Abnormal AC Input, UPS Failure, etc				
IP CLASS	IP 20				
NOISE (DB)	<72 dB@100% load				
WORKING TEMP. (°C)	0~40°C				
RELATIVE HUMIDITY		0 ~	95%, no condensation		
DIMENSIONS (MM) CABINET POWER MODULE	600*980*1150	650*960*1600	650*970*2000 510*700*178	1050*1100*2000	1300*1100*2000
WEIGHT (KG) CABINET POWER MODULE	120	170	220 44	350	450

LBS POWER

Since its foundation in 2005, LBS is specialized in the production and distribution of UPS and electrical solutions with low and medium voltage equipment..

Its core business is based on giving excellent products, which allow enormous savings by providing clean energy, respecting the environment and solving mission-critical energy situations for its customers, in addition to providing excellent technical service and 24/7 assistance.



LBS has presence with offices in Mexico and the United States and a production plant in Italy.

Additional Services



Technical Service



Diagnostic Service



Pre sale and Post sale Advice



Preventive and Corrective Maintenance

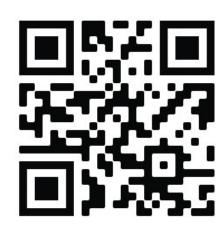


Energy quality study



LBS Power Technologies

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