



Wide input Range	
Power Factor	<b>0.8 PFC</b>
Double Conversion	<b>VFI TYPE</b>
Long Back-up	
IFR	
ECO	
Interface SNMP	
Hot swappable	

Transformer based design UPS are Low frequency UPS systems, which provides better compatibility with various types of loads and ensures higher levels of reliability and efficiency. They are often used in applications where reliability and performance are critical, such as data centres, medical facilities, and industrial environments. Voltan Low frequency UPS has salient features like Higher Power Capacity compared to High frequency UPS, better compatibility with wide range of loads, greater surge capacity to handle sudden spike in power demand, Improved Voltage Regulation to regulate voltage more effectively, providing a stable and clean power supply to connected equipment, enhanced reliability less prone to failure and can withstand harsh operating conditions. Overall, low frequency UPS systems are preferred in applications where reliability, capacity, and compatibility with various loads are paramount.

## 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, low distortion and without power fluctuation interference, providing the load with more comprehensive protection.

### Battery cold start function

The UPS can be start directly by battery group when no utility access in, which meets the emergent needs of user. Strong cold start ability, which can do the cold start operation when full load.

### Wide input range

Wide input voltage range up to: 165~275Vac, avoid frequently switching to battery mode, which adapt to the areas with harsh environment.

Wide input frequency range, ensure all types of fuel generators connected work stable.

### Optimization of high-performance battery

Advanced floating switching and charging technology maximums the activation of the battery, thus saves the charging time and extends the battery life.

### Strong protection for load

Built-in isolation transformer, strong anti-interference ability, provides more comprehensive protection.

### 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 overcharge and so on greatly ensure the system stability and reliability. Built-in static electronic bypass switch, when UPS fails, it can transfer to bypass mode and continue to provide power for load by AC.

DC start function The UPS can be started directly without AC, which meet the emergent needs of the user.

## User-friendly network management

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

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

## SPECIFICATIONS

Model	V1GP	V2GP	V3GP	V4GP	V6GP	V8GP	V10GP	V12GP	V15GP	V20GP
Capacity	1kVA/0.8kW	2kVA/1.6kW	3kVA/2.4kW	4kVA/3.2kW	6kVA/4.8kW	8kVA/6.4kW	10kVA/8kW	12kVA/9.6kW	15kVA/12kW	20kVA/16kW
Input										
Nominal voltage	220/230Vac									
Operating voltage range	165 ~ 275Vac									
Operating frequency range	50/60Hz ( ± 5%)									
Power factor	≥0.97 *									
Output										
Output voltage	220Vac ( ± 0.5%)/230Vac ( ± 0.5%)									
Output frequency	50/60Hz ( ± 0.5%)									
Crest factor	3:1 (Max)									
Efficiency	82%			84%			85%			
Harmonic distortion (THDv)	≤2% (Linear load)									
Battery										
Battery voltage	48Vdc or 192Vdc			192Vdc						
System Features										
Transfer time	0 ms (Line mode → Battery mode)									
Overload	110%≤Load≤150%/1min; > 150%/200ms, to Bypass									
Communication interface	RS232, RS485 (Optional), EPO (Optional), Dry contact (Optional), SNMP (Optional)									
Environmental										
Operating temperature	0 ~ 40℃									
Storage temperature	-25 ~ 55℃									
Humidity range	0 ~ 95% (Non-condensing)									
Altitude	<1500m									
Noise level	<60dB							<65dB		
Physical										
Dimension W × D × H (mm)	230 × 580 × 720 (S)/250 × 500 × 635 (H)					250 × 500 × 635		305 × 585 × 864		
Net weight (S/H) (kg)	80/32	85/36	99/40	102/45	108/50	60	65	115	130	145
Shipping weight (S/H) (kg)	88/40	93/44	107/48	110/53	116/58	68	73	125	140	155
Standards										
Safety	IEC/EN 62040-1; IEC 62477-1									
EMC	IEC/EN 62040-2 (IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, IEC 61000-4-8, IEC 61000-4-11, IEC 61000-2-2)									
Performance	IEC/EN 62040-3									

\* With optional filter

1. Specifications are subject to change without prior notice 2. Data above are typical values for reference only, not as a basis for engineering design

## ORDERING INFORMATION

Part No.	Description
V1GP	1 KVA, 1:1 Ph, PF0.8 Transformer UPS, with energy backfilling protection function
V2GP	2 KVA, 1:1 Ph, PF0.8 Transformer UPS, with energy backfilling protection function
V3GP	3 KVA, 1:1 Ph, PF0.8 Transformer UPS, with energy backfilling protection function
V4GP	4 KVA, 1:1 Ph, PF0.8 Transformer UPS, with energy backfilling protection function
V6GP	6 KVA, 1:1 Ph, PF0.8 Transformer UPS, with energy backfilling protection function
V8GP	8 KVA, 1:1 Ph, PF0.8 Transformer UPS, with energy backfilling protection function
V10GP	10KVA, 1:1 Ph, PF0.8 Transformer UPS, with energy backfilling protection function
V12GP	12KVA, 1:1 Ph, PF0.8 Transformer UPS, with energy backfilling protection function
V15GP	15KVA, 1:1 Ph, PF0.8 Transformer UPS, with energy backfilling protection function
V20GP	20KVA, 1:1 Ph, PF0.8 Transformer UPS, with energy backfilling protection function