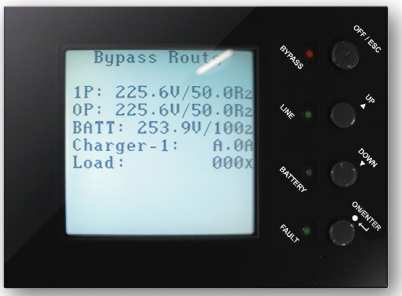
INTRINSIC MANUFACTURING

c UL us LISTED

Flex Series Online UPS

MODULAR TYPE





This LCD display shows all information of each power module. It also can be set to display information of an entire customized system.

Product Features

True double-conversion

Flex series is applied online double conversion technology to effectively insulate against network disturbances and enable higher load uptime.

Modular connector box with hot-swappable design for ease of power expansion, installation and maintenance

Flex is applied patented modular design to enhance the flexibility of power expansion and maintenance. By simply removing four screws on the connector box, power module can be easily removed out from cabinet without disconnecting all wires. It also simplifies the process of maintenance and replacement to reduce the maintenance cost effectively.



Standard 19" form factor with tower/rack convertible design

Designed for easy adjustment, the vertical/horizontal conversion design enhances the flexibility and scalability of the modular UPS. 19" form factor suits for the standard rack so it optimizes cost expense to meet the power demands.



Parallel operation with common battery

Compared to general parallel system, multiple Flex Series UPSs can form a parallel power backup system by sharing common battery packs which might greatly reduce the expense and reach the same performance.

Adjustable battery design

The number of connected batteries can be adjusted flexibly based on different power demands.

DSP technology guarantees high reliability

A Digital Signal Processor (DSP) technology digitizes the data and mathematically manipulates them to provide an improved solution with higher performance.

Output power factor 1.0

For critical applications, the modular UPS with output power factor 1.0 ensures higher efficiency and advanced performance.

50Hz/60Hz frequency converter mode

Lock output frequency at 50Hz or 60Hz to suit power sensitive equipments.

ECO mode operation for energy saving

ECO mode improves the efficiency up to 97% to cut energy usage & cost. In this mode, loads are supplied by the mains directly. While mains failure, the UPS will constantly supply the power to the connected device without any interruption.

Emergency power off function (EPO)

In case of any emergency and fire, the EPO control mechanism can instantly shut down the system.

Generator compatible

This UPS can accept generator as power source and still convert perfect power to the connected loads.

Customized system

Multiple Flex Series UPSs can easily form a complete system based on customer's demand. Please contact sales directly for the details.



Customized System			
Cabinet Height	19U		
Number of power module	4	2	1
Number of battery module	0	2	3
This customized system will be embedded 1U centralized communication unit.			

INTRINSIC MANUFACTURING

c UL us LISTED

Flex Series Online UPS

MODULAR TYPE

Product Specifications

MODEL	Flex 1/1-10K	Flex 2/2-6K LV	Flex 3/3-10K LV
PHASE	1 phase in / 1 phase out	2 phase in / 2 phase out	3 phase in / 3 phase out
CAPACITY	10000 VA / 10000 W	6000 VA / 6000 W	10000 VA / 8000 W
PARALLEL CAPABILITY	10	10	10
INPUT			
Nominal Voltage	208VAC/220VAC/230VAC/240VAC (1Ph+N+PE)	100/200, 110/220, 120/208, 120/240, 127/220 VAC (2Ph+N+PE)	3 x 173VAC/190VAC/200VAC/208VAC/220VAC (3Ph+N+PE)
Voltage Range	110-300 VAC @ 50% load; 176-276 VAC @ 100% load	88-155 VAC (L-N); 152-269 VAC (L-L)	88-155 VAC (L-N); 152-269 VAC (L-L)
Frequency Range	40 Hz ~ 70 Hz	40 Hz ~ 70 Hz	40 Hz ~ 70 Hz
Power Factor	≧0.99 @ 100% load	≧0.99 @ 100% load	≧0.99 @ 100% load
THDi	< 4% @ full linear load	< 4% @ full linear load	< 4% @ full linear load
OUTPUT			
Output Voltage	208*/220/230/240VAC (L+N)	100/200, 110/220, 120/208, 120/240, 127/220 VAC (2Ph+N)	173VAC/190VAC/200VAC/208VAC/220VAC (3Ph+N)
AC Voltage Regulation (Batt. Mode)	± 1%		
Frequency Range (Synchronized Range)	46~54Hz or 56~64Hz		
Frequency Range (Batt. Mode)	50 Hz ± 0.1 Hz or 60 Hz ± 0.1 Hz		
Current Crest Ratio	3:1 (max.)		
Harmonic Distortion	≦ 2% THD (Linear Load) ; ≦ 3% THD (Non-linear Load)		
Transfer Time — AC Mode to Batt.	zero		
Transfer Time — Inverter to Bypass	zero		
Waveform (Batt. Mode)	Pure Sinewave		
EFFICIENCY			
AC Mode	93.50%	91%	92%
ECO Mode	97%	97%	97%
Battery Mode - At	92%	91%	92%
Battery Mode -	92.50%	91.50%	92%
BATTERY CHARGER			
Battery Voltage	± 12V / 9 Ah		
Battery Numbers	16~20 pcs (adjustable) x 2	8~10pcs (adjustable) x 2	8~10pcs (adjustable) x 2
Nominal Voltage	+/- 192V (12V x 32 pcs)	+/- 96V (12V x 16 pcs)	+/- 96V (12V x 16 pcs)
Maximum Voltage	+/- 240V (12V x 40 pcs)	+/- 120V (12V x 20 pcs)	+/- 120V (12V x 20 pcs)
Minimum Voltage	+/- 192V (12V x 32 pcs)	+/- 96V (12V x 16 pcs)	+/- 96V (12V x 16 pcs)
Charging Voltage	± 218V	± 109V	± 109V
Typical Recharging Time	9 hours recover to 90% capacity		
Charging Current	± 4A		
INDICATORS			
LCD/LED Display	UPS status, Load level, Battery level, Input/Output voltage, Discharge timer, and Fault conditions		
PHYSICAL			
Dimension, DxWxH (mm)	678 × 418 × 129 (3U)		
Net Weight (kgs)	20.5	17.6	21
ENVIRONMENT			
Operating Humidity	0-95 % RH @ 0-40°C (non-condensing)		
Noise Level	Less than 55dB @ 1 Meter		
MANAGEMENT			
Smart RS-232/USB	Supports Windows® Family, Linux and MAC		
Optional SNMP	Power management from SNMP manager and web browser		

*Derate capacity to 90% of capacity when the output voltage is adjusted to 208VAC.

Product specifications are subject to change without further notice.