

PL3 SERIES HIGH FREQUENCY ONLINE UPS

1KVA / 2KVA / 3KVA

1Phase : 1Phase

Application:

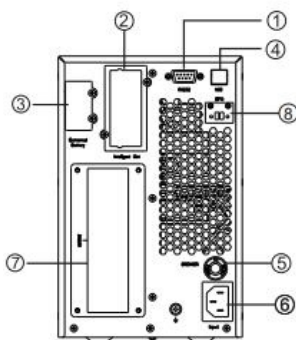
IDC(Internet Dater Center), network ,servers and workstations,
control system, communication system , office , PC etc



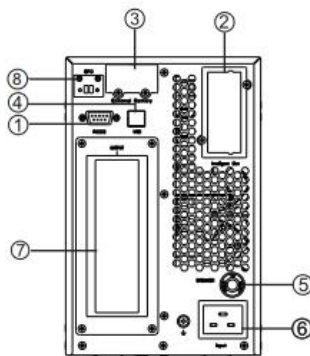
Features:

- True online double-conversion technology
- Wide input voltage range and stable power supply extends battery lifetime
- DSP technology
- Advanced PFC technology, input PF>99%
- Cold start
- Automatic battery charging on/off mode
- Lighting and surge protection
- LCD
- Smart RS232 port with monitoring software
- Smart slot for mission critical applications

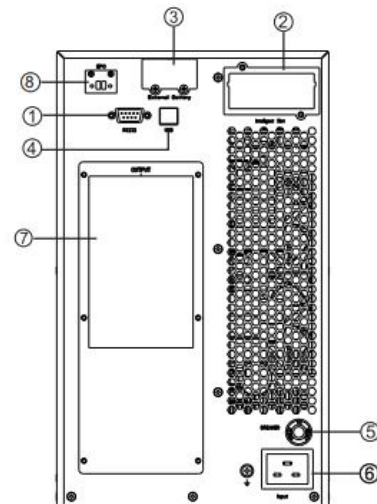
Real Panel:



1KS(L)



2KS(48Vdc)/2KL/3KL



2KS(72Vdc)/3KS

- | | | | |
|--------------|------------------------------------|------------------------------|-----------------|
| ① RS232 | ③ External battery connection port | ⑤ Input over current breaker | ⑦ Output socket |
| ② Smart slot | ④ USB | ⑥ AC input | ⑧ EOP |

Specification:

MODEL	PL3 1KS	PL3 1KL	PL3 2KS	PL3 2KL	PL3 3KS	PL3 3KL
Capacity	1kVA/1kW	1kVA/1kW	2kVA/2kW	2kVA/2kW	3kVA/3kW	3kVA/3kW
Phase	1 Phase in/1 Phase out					
INPUT						
Nominal Voltage	208/220/230/240VAC (L-N Voltage), L+N+PE					
Input Voltage Range	176~300VAC (L-N Voltage)@100%load; 176~110VAC, linearly derating from 100% to 50% load					
Input Frequency Range	40-70Hz					
Input Power Factor	>0.99					
Input Current Distortion	< 4%					
Bypass Voltage Range	-40%~20% of nominal voltage, adjustable					
OUTPUT						
Nominal Voltage	208/220/230/240VAC, L+N+PE					
Voltage Regulation	± 1 %					
Nominal Frequency	50/60Hz, adjustable					
Output Frequency	Line Mode:50/60±1/2/3/4/5/6Hz , adjustable ; Battery Mode: 50/60±0.001 Hz					
Output Power Factor	1					
Output Voltage Distortion (THDu)	≤3%@linear load; ≤5%@non-linear load					
Transfer Time	Line mode to Battery mode, 0ms; Inverter to Bypass, 4ms (Synchronized); Bypass to Inverter, 4ms(Synchronized); ECO to Battery Mode, 6ms (Typical Time)					
Crest Ratio	3:1					
Overload Capacity (Line Mode)	30 min @ 102%~110% load;					
	10 min @ 110%~130% load;					
	30s @130%~150% load;					
	200 ms @ > 150% load					
Overload Capacity (Battery Mode)	1 min @ 102%~110% load;					
	10s @ 110%~130% load;					
	3s @130%~150% load;					
	200 ms @ >150% load					
Overload Capacity (Bypass Mode)	Depending the input breaker (10A)	Depending the input breaker (10A)	Depending the input breaker (20A)	Depending the input breaker (20A)	Depending the input breaker (20A)	Depending the input breaker (20A)
Output Short Circuit	Line Mode: Current limitation; Battery Mode: Current limitation; Bypass Mode: Breaker					
BATTERY						
Battery Type	Sealed Lead Acid Maintenance Free (VRLA)					
Nominal Voltage	24VDC	36VDC	48VDC	72VDC	72VDC	96VDC
Charging Voltage	Floating Charge, 2.25V/cell; Boost Charge, 2.35V/cell					
Battery Number&Capacity	2 pcs, 12V/9Ah	External	4 pcs, 12V/9Ah	External	6 pcs, 12V/9Ah	External
Charging Current	1A	1~12A, adjustable	1A	1~12A, adjustable	1A	1~12A, adjustable
Charging Mode	Two Satges (CC/Floating) or Three Stages (CC/CV/Floating, adjustable)					
Typical Recharge Time	9 hours recharge to 90%	Depending on the capacity of external batteries	9 hours recharge to 90%	Depending on the capacity of external batteries	9 hours recharge to 90%	Depending on the capacity of external batteries
Battery Protection	Battery Leakage < 500µA, Over Voltage Protection, Under Voltage Protection, Over Current Protection; Battery Deep Discharge Protection					
EFFICIENCY						
Line Mode	94.5% (Max)	94.5% (Max)	95.5% (Max)	95.5% (Max)		
Battery Mode	87.5% (Max)	88.5% (Max)	89.5% (Max)	91.5% (Max)		
ECO Mode	98%					
INDICATORS						
LCD Panel	UPS status, Battery Level, Load Level, Input/Outpt/Battery Voltage, Fault&Alarm Code					
Audible Alarm	Utility Failure, Battery Voltage Low, Overload, System Fault					
MANAGEMENT						
Interface	RS232, USB, EPO Port, SNMP Card (Optional), Relay Card (Optional)					
ENVIRONMENT						
Operating Temperature	0~40°C					
Operating Humidity	0~95% RH, non-condensing					
Storage Temperature	-15~60°C (Battery: 0-40°C)					
Altitude	<1000m, derating 1% per 100m from 1000 ~ 2000m					
Noise (1Meter Away)	< 50dB					
PHYSICAL						
Dimension (W*D*H, unit:mm)	145x282*224		145x405*224		190x418x370	145x405*224
Net Weight (kg)	10	4	16.3	5.9	23.5	6.3
Color	Black (RAL9004)					
STANDARDS						
Safety	IEC 62040-1:2017					
EMC	IEC 62040-2:2018					
Performance	IEC 62040-3:2011					
Battery	IEC 60896-22:2004					