# HUBNETIX Pro Plus Series 10~20kVA Uninterruptible Power Supply



PRO PLUS 3110B / 3110 / 3115 / 3120



### Features

- N+X parallel redundancy
- Online double conversion with DSP control
- Input current harmonic: <5%
- Optimization battery group, the quantity of battery: 16/18/20 pieces (optional)
- High output power factor at 0.9PF
- Wide input voltage range: 208~478Vac
- Wide input frequency range (50Hz: 45~55Hz / 60Hz: 54~66Hz)
- Support generator input
- Support economic(ECO) operation mode
- Self-testing when UPS startup
- Options: SNMP card / Relay card / Parallel board
- Cold start

MODEL (PRO PLUS)	3110B	3110	3115	3120	
Capacity (VA/Watts)	10k / 9k		15k / 13.5k	20k / 18k	
INPUT					
Nominal input voltage	380 / 400 / 415Vac; (3Ph+N+PE)				
Operating voltage range	208~478Vac				
Operating frequency range	50Hz:45~55Hz; 60Hz:54~66Hz (auto sensing)				
Power factor	≥0.99				
Bypass voltage range	Max. voltage: 220V: +25%(optional +10%,+15%,+20%), 230V: +20% (optional +10%,+15%) 240V: +15% (optional +10%) Min. voltage: -45% (optional -20%,-30%)				
Bypass frequency range	Frequency protection range: ±10%				
ECO range	Same as the bypass				
Harmonic distortion (THDi)	<5% (100% linear load)				
Generator input	Support				



## Pro Plus Series

## 10~20kVA Uninterruptible Power Supply



Main State	MODEL (PRO PLUS)		3110B	3110	3115	3120		
Voltage regulation	OUTPUT							
Voltage regulation			220 / 230 / 240Vac					
Power factor		•						
Frequency			·					
Battery Mode	_	Line Mode	±1%/±2%/±4%/±5%/±10% of the rated frequency (optional)					
Fefficiency	Frequency	Battery Mode						
Bartery Voltage	Crest factor	-						
### Battery voltage	Efficiency			>93.5% >94.5%				
Eattery voltage	Harmonic distortion (TH	D)	≤2% with linear load • ≤5% with non-linear load					
Capacity (standard unit) Typical recharge time  Charge current Typical recharge time  12 V / 7Ah  13 (10kVA Standard unit); Max. current 10A (Long run unit) (charge current can be set scoording to battery capacity intellated)  SYSTEM FEATURES  Transfer time  Overload Short circuit  Unit Mode  Bypass Mode  Breaker 63A  Breaker 100A  Breaker 125A  Breaker 100A  Breaker 125A  Breaker 100A  Breaker 125A  Breaker 100A  Breaker 125A  Short circuit  Overheat  Line Mode: Turn to Bypass; Bat. Mode: Shut down UPS immediately  Low battery voltage  Self-diagnostics  Upon Power On and Software Control  Battery  Advanced Battery Management  Audible & Visual alarms  Line Failure, Battery Low, Overload, System Fault  LED & LCD display  Line Mode, Battery Mode, Eco Mode, Bypass Mode, Battery Low, Battery Bad, Overload & UPS Fault  LCD display  Line Mode, Battery Mode, Eco Mode, Bypass Mode, Battery Low, Battery Bad, Overload & UPS Fault  LCD display  Line Mode, Battery Mode, Eco Mode, Bypass Mode, Battery Low, Battery Bad, Overload & UPS Fault  LCD display  Line Mode, Battery Mode, Eco Mode, Bypass Mode, Battery Low, Battery Bad, Overload & UPS Fault  LCD display  Line Mode, Bypass Mode, Battery Low, Battery Bad, Overload & UPS Fault  LCD display  Line Mode, Bypass Mode, Battery Low, Battery Bad, Overload & UPS Fault  LCD display  Line Mode, Bypass Mode, Battery Low, Battery Bad, Overload & UPS Fault  LCD display  Low Solved Battery Mode, Counter Voltage, Untur Trequency, Load Percentage, Battery Voltage, Inner Temperature & Remaining Battery Backup Time  Communication interface  Dry contact, USB, SNMP card (optional), Parallel board (optional), Relay card (optional)  Relay Cardinal Car	BATTERY							
Typical recharge time	Battery voltage		±96 / 108 / 120Vdc (optional)					
Charge current   To A (10kVA Standard unit); Max. current 10A (Long run unit) (charge current can be set according to battery capacity installed)   SYSTEM FEATURES	Capacity (standard unit)							
Charge current   To A (10kVA Standard unit); Max. current 10A (Long run unit) (charge current can be set according to battery capacity installed)   SYSTEM FEATURES	Typical recharge time							
Transfer time			, , , , , , , , , , , , , , , , , , , ,			according to battery capacity installed)		
Transfer time         Mains to Battery: 0ms; Mains to Bypass: 0ms           Overload Short circuit         Line Mode Bypass Mode         Breaker 63A         last 1min, ≥150% turn to bypass mode immediately           Short circuit         Floid whole system         Breaker 125A           Overheat         Line Mode: Turn to Bypass; Bat. Mode: Shut down UPS immediately           Low battery voltage         Alarm and Switch off           Self-diagnostics         Upon Power On and Software Control           Battery         Advanced Battery Management           Audible & Visual alarms         Line Mode, Battery Mode, Eco Mode, Bypass Mode, Battery Low, Overload, System Fault           LED & LCD display         Line Mode, Battery Mode, Eco Mode, Bypass Mode, Battery Low, Battery Bad, Overload & UPS Fault           LCD display         Input Voltage, Input Frequency, Output Voltage, Output Frequency, Load Percentage, Battery Voltage, Input Frequency and Percentage, Battery Voltage, Input Voltage, Output Frequency, Load Percentage, Battery Voltage, Input Voltage, Output Frequency, Load Percentage, Battery Voltage, Input Voltage, Input Voltage, Output Frequency, Load Percentage, Battery Voltage, Input				,,	, , ,	3 , , , ,		
Overload Short circuit         Line Mode Bypass Mode Breaker 63A         Breaker 100A         Breaker 125A           Short circuit         Hold whole system         Breaker 100A         Breaker 125A           Overheat         Line Mode: Turn to Bypass; Bat. Mode: Shut down UPS immediately         Low battery         Low Battery woltage         Alarm and Switch off           Self-diagnostics         Upon Power On and Software Control         Battery         Advanced Battery Management           Audible & Visual alarms         Line Mode, Battery Mode, Eco Mode, Bypass Mode, Battery Low, Overload, System Fault         LIDE A LCD display           LED & LCD display         Line Mode, Battery Mode, Eco Mode, Bypass Mode, Battery Low, Battery Bad, Overload & UPS Fault           LCD display         Line Mode, Battery Mode, Eco Mode, Bypass Mode, Battery Low, Overload, System Fault           LCD display         Line Mode, Battery Mode, Eco Mode, Bypass Mode, Battery Low, Battery Bad, Overload & UPS Fault           LCD display         Line Mode, Battery Mode, Eco Mode, Bypass Mode, Battery Low, Overload, System Fault           LCD display         Input Voltage, Input Frequency, Output Voltage, Output Frequency, Load Percentage, Battery Voltage, Input Frequency, Load Percentage, Battery Voltage, Input Frequency, Load Percentage, Battery Low, Overload, System Fault           Experimentage of Percentage, Battery Low, Overload, System Fault           Experimentage of Percentage, Battery Low, Overload, System Fault			Mains to Battery: Oms: Mains to Rypass: Oms					
Sprass Mode   Breaker 63A   Breaker 100A   Breaker 125A		Line Mode						
Short circuit Hold whole system  Overheat Line Mode: Turn to Bypass; Bat. Mode: Shut down UPS immediately Low battery voltage Alarm and Switch off  Self-diagnostics Upon Power On and Software Control  Battery Advanced Battery Management  Audible & Visual alarms Line Failure, Battery Low, Overload, System Fault  LED & LCD display Line Mode, Battery Mode, Eco Mode, Bypass Mode, Battery Low, Battery Bad, Overload & UPS Fault  LCD display Input Voltage, Input Frequency, Output Voltage, Output Frequency, Load Percentage, Battery Voltage, Inner Temperature & Remaining Battery Backup Time  Communication interface Dry contact, USB, SNMP card (optional), Parallel board (optional), Relay card (optional)  ENVIRONMENTAL  Operating temperature O°C ~ 40°C  Storage temperature O°C ~ 55°C  Humidity range O ~ 95% (non-condensing)  Altitude Soft Soft Soft Soft Soft Soft Soft Soft	Overload Short circuit	Bypass Mode						
Low battery voltage  Self-diagnostics  Self-diagnostics  Self-diagnostics  Battery  Advanced Battery Management  Audible & Visual alarms  Line Mode, Battery Mode, Eco Mode, Bypass Mode, Battery Low, Battery Bad, Overload & UPS Fault  LED & LCD display  Line Mode, Battery Mode, Eco Mode, Bypass Mode, Battery Low, Battery Bad, Overload & UPS Fault  LCD display  Input Voltage, Input Frequency, Output Voltage, Output Frequency, Load Percentage, Battery Voltage, Inner Temperature & Remaining Battery Backup Time  Communication interface  Dry contact, USB, SNMP card (optional), Parallel board (optional), Relay card (optional)  ENVIRONMENTAL  Operating temperature  O°C ~ 40°C  Storage temperature  O°C ~ 55°C  Humidity range  O ~ 95% (non-condensing)  Altitude  < 1500m  Noise level  < 555dB  < 58dB  PHYSICAL  Dimension DxWxH (mm)  597x250x655  502x250x616  Sox250x616  Sox250x616  Net weight (kg)  76  35  45  46  BATTERY BANK  Model  MP-BT Series  Battery type & Maximum quantity  STANDARDS  Safety  IEC/EN602040-1;IEC/EN60950-1	Short circuit	, , ,						
Self-diagnostics  Upon Power On and Software Control  Battery  Advanced Battery Management  Audible & Visual alarms  Line Failure, Battery Low, Overload, System Fault  LED & LCD display  Line Mode, Battery Mode, Eco Mode, Bypass Mode, Battery Low, Battery Bad, Overload & UPS Fault  LCD display  Line Mode, Battery Mode, Eco Mode, Bypass Mode, Battery Low, Battery Bad, Overload & UPS Fault  LCD display  Input Voltage, Input Frequency, Output Voltage, Output Frequency, Load Percentage, Battery Voltage, Inner Temperature & Remaining Battery Backup Time  Communication interface  Dry contact, USB, SNMP card (optional), Parallel board (optional), Relay card (optional)  ENVIRONMENTAL  Operating temperature  O°C ~ 40°C  Storage temperature  -25°C ~ 55°C  Humidity range  0 ~ 95% (non-condensing)  Altitude  <-1500m  Noise level  -555dB  -58dB  PHYSICAL  Dimension DxWxH (mm)  597x250x655  502x250x616  502x250x616  Net weight (kg)  76  35  45  46  BATTERY BANK  Model  MP-BT Series  Battery type & Maximum quantity  2x20pcs / 7Ah / (9Ah)  STANDARDS  Safety  IEC/EN62040-1;IEC/EN60950-1	Overheat					ediately		
Advanced Battery Management         Audible & Visual alarms       Line Failure, Battery Low, Overload, System Fault         LED & LCD display       Line Mode, Battery Mode, Eco Mode, Bypass Mode, Battery Low, Battery Bad, Overload & UPS Fault         LCD display       Input Voltage, Input Frequency, Output Voltage, Output Frequency, Load Percentage, Battery Voltage, Inner Temperature & Remaining Battery Backup Time         Communication interface       Dry contact, USB, SNMP card (optional), Parallel board (optional), Relay card (optional)         ENVIRONMENTAL         Operating temperature       0°C ~ 40°C         Storage temperature       -25°C ~ 55°C         Humidity range       0 ~ 95% (non-condensing)         Altitude       <1500m	Low battery voltage							
Audible & Visual alarms  Line Failure, Battery Low, Overload, System Fault  LED & LCD display  Line Mode, Battery Mode, Eco Mode, Bypass Mode, Battery Low, Battery Bad, Overload & UPS Fault  LCD display  Input Voltage, Input Frequency, Output Voltage, Output Frequency, Load Percentage, Battery Voltage, Inner Temperature & Remaining Battery Backup Time  Communication interface  Dry contact, USB, SNMP card (optional), Parallel board (optional), Relay card (optional)  ENVIRONMENTAL  Operating temperature  O°C ~ 40°C  Storage temperature  1°2°C ~ 55°C  Humidity range  1°2°C ~ 55°C  Humidity range  1°3°C ~ 1500m  Noise level  3°55dB  55dB  PHYSICAL  Dimension DxWxH (mm)  597x250x655  502x250x616  Sozx250x616  Net weight (kg)  76  35  45  46  BATTERY BANK  Model  MP-BT Series  Battery type & Maximum quantity  STANDARDS  Safety  IEC/EN60940-1;IEC/EN60950-1			Upon Power On and Software Control					
Line Mode, Battery Mode, Eco Mode, Bypass Mode, Battery Low, Battery Bad, Overload & UPS Fault LCD display  Input Voltage, Input Frequency, Output Voltage, Output Frequency, Load Percentage, Battery Voltage, Inner Temperature & Remaining Battery Backup Time  Communication interface  Dry contact, USB, SNMP card (optional), Parallel board (optional), Relay card (optional)  ENVIRONMENTAL  Operating temperature  O°C ~ 40°C  Storage temperature  10°C ~ 40°C  Storage temperature  0°C ~ 40°C  Storage temperature  0°C ~ 40°C  Storage temperature  0°C ~ 40°C  Storage temperature  10°C ~ 40°C  10°	Battery		Advanced Battery Management					
LCD display Input Voltage, Input Frequency, Output Voltage, Output Frequency, Load Percentage, Battery Voltage, Inner Temperature & Remaining Battery Backup Time   Communication interface Dry contact, USB, SNMP card (optional), Parallel board (optional), Relay card (optional)   ENVIRONMENTAL   Operating temperature 0°C ~ 40°C   Storage temperature -25°C ~ 55°C   Humidity range 0 ~ 95% (non-condensing)   Altitude < 1500m	•		, ,					
Inner Temperature & Remaining Battery Backup Time  Communication interface  Dry contact, USB, SNMP card (optional), Parallel board (optional), Relay card (optional)  ENVIRONMENTAL  Operating temperature  O°C ~ 40°C  Storage temperature  1°25°C ~ 55°C  Humidity range  0°95% (non-condensing)  Altitude  <1500m  Noise level  <1500m  Noise level  597x250x655  502x250x616  S02x250x616  Net weight (kg)  76  35  45  46  BATTERY BANK  Model  MP-BT Series  Battery type & Maximum quantity  STANDARDS  Safety  IEC/EN62040-1;IEC/EN60950-1	LED & LCD display		·					
ENVIRONMENTAL           Operating temperature         0°C ~ 40°C           Storage temperature         -25°C ~ 55°C           Humidity range         0 ~ 95% (non-condensing)           Altitude         < 1500m	LCD display	CD display		Input Voltage, Input Frequency, Output Voltage, Output Frequency, Load Percentage, Battery Voltage,				
Operating temperature         0°C ~ 40°C           Storage temperature         -25°C ~ 55°C           Humidity range         0 ~ 95% (non-condensing)           Altitude         < 1500m	Communication interface							
Operating temperature         0°C ~ 40°C           Storage temperature         -25°C ~ 55°C           Humidity range         0 ~ 95% (non-condensing)           Altitude         < 1500m	ENVIRONMENTAL							
Storage temperature         -25°C ~ 55°C           Humidity range         0 ~ 95% (non-condensing)           Altitude         < 1500m								
Altitude       < 1500m			-25°C ~ 55°C					
Noise level         <55dB         <58dB           PHYSICAL           Dimension DxWxH (mm)         597x250x655         502x250x616         502x250x616           Net weight (kg)         76         35         45         46           BATTERY BANK           Model         MP-BT Series           Battery type & Maximum quantity         2x20pcs / 7Ah / (9Ah)           STANDARDS           Safety         IEC/EN62040-1;IEC/EN60950-1								
PHYSICAL           Dimension DxWxH (mm)         597x250x655         502x250x616         502x250x616           Net weight (kg)         76         35         45         46           BATTERY BANK           Model         MP-BT Series           Battery type & Maximum quantity         2x20pcs / 7Ah / (9Ah)           STANDARDS           Safety         IEC/EN62040-1;IEC/EN60950-1	Altitude		` 3/					
Dimension DxWxH (mm)         597x250x655         502x250x616         502x250x616           Net weight (kg)         76         35         45         46           BATTERY BANK           Model         MP-BT Series           Battery type & Maximum quantity         2x20pcs / 7Ah / (9Ah)           STANDARDS           Safety         IEC/EN62040-1;IEC/EN60950-1	Noise level		<55dB <58dB			BdB		
Dimension DxWxH (mm)         597x250x655         502x250x616         502x250x616           Net weight (kg)         76         35         45         46           BATTERY BANK           Model         MP-BT Series           Battery type & Maximum quantity         2x20pcs / 7Ah / (9Ah)           STANDARDS           Safety         IEC/EN62040-1;IEC/EN60950-1	PHYSICAL		'		'			
BATTERY BANK  Model MP-BT Series  Battery type & Maximum quantity 2x20pcs / 7Ah / (9Ah)  STANDARDS  Safety IEC/EN62040-1;IEC/EN60950-1			597x250x655	502x250x616	502x25	50x616		
ModelMP-BT SeriesBattery type & Maximum quantity2x20pcs / 7Ah / (9Ah)STANDARDSSafetyIEC/EN62040-1;IEC/EN60950-1			76	35	45	46		
ModelMP-BT SeriesBattery type & Maximum quantity2x20pcs / 7Ah / (9Ah)STANDARDSSafetyIEC/EN62040-1;IEC/EN60950-1								
STANDARDS Safety IEC/EN62040-1;IEC/EN60950-1				MP-BT Series				
STANDARDS Safety IEC/EN62040-1;IEC/EN60950-1								
Safety IEC/EN62040-1;IEC/EN60950-1				·				
		IEC/EN62040-1;IEC/EN60950-1						
1EO/ LINOZOMO Z,1EOO 1 000 M Z,1EOO 1 000 TM Z,1EOO 1 000 TM TM,1EOO 1 000 T	EMC		IEC/EN62040-2;IEC61000-4-2;IEC61000-4-3;IEC61000-4-4;IEC61000-4-5;IEC61000-4-6;IEC61000-4-			61000-4-6;IEC61000-4-8		

Ordering & Packaging Info						
MODEL NUMBER	PART NUMBER	MODEL NUMBER	PART NUMBER			
PRO PLUS 3110B	HP-PP3110B	PRO PLUS 3115	HP-PP3115			
PRO PLUS 3110B	HP-PP3110	PRO PLUS 3120	HP-PP3120			

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