P3C Printer Specifications

Item		Specification
Printing Technology		Fused Filament Fabrication
Body	Build Volume (L * W * H)	256*256*260 mm
	Enclosure Type	Enclosed
	Hotend Switching System	Bambu Lab SwapTek™ 7-Tool Switching
	Chassis	Steel
	Outer Frame	Plastic
Dimensions and Weight	Package Dimensions	510*565*625 mm
	Product Dimensions	413*538*540 mm
	Recommended Installation Space	513*960*1212 mm
	Net Weight	26.5 kg (including the AMS 3P)
Toolhead	Extruder Gear	Hardened Steel
	Included Nozzle Material	Hardened Steel
	Max Nozzle Temperature	300 °C
	Included Nozzle Diameter	0.4 mm
	Supported Nozzle Diameter	0.2 mm, 0.4 mm, 0.6 mm, 0.8 mm
	Filament Cutter	Built into the PrintTool
	Expansion Options	Supports the CraftTool (CutTool, DrawTool, and more coming)
	Supported Filament Diameter	1.75 mm, 2.85 mm (Bypass feed only)
	Extruder Motor	Bambu Lab high-precision brushless servo motor with planetary gearbox
Heatbed	Build Plate Material	Flexible Steel Plate
	Included Build Plate Type	Textured PEI Plate
	Supported Build Plate Type	Textured PEI Plate, Cool Plate SuperTack, Engineering Plate
	Max Heatbed Temperature	110 °C
Speed	Max Speed of Toolhead	1,400 mm/s
	Max Acceleration of Toolhead	25,000 mm/s^2
	Max Flow for Hotend	40 mm^3/s (Test parameters: 250 mm round model with a single outer wall; Bambu Lab ABS; 280 °C printing temperature)
Air Purification	HEPA Filter Grade	H11
	Activated Carbon Filter Type	Granulated Coconut Shell
	VOC Filtration	Excellent
	Particulate Matter Filtration	Supported

Item		Specification
Cooling	Part Cooling Fan	Closed Loop Control
	Hotend Cooling Fan	Closed Loop Control
	Main Control Board Fan	Closed Loop Control
	Auxiliary Part Cooling Fan	Closed Loop Control
	Exhaust Fan	Closed Loop Control
Filaments Supported	PLA, PETG, PCTG, TPU, EVA, PE, PP, PHA	Supported
	PVA, BVOH, support filament	Supported
	Carbon/glass fiber reinforced: PLA, PETG	Supported
	ABS, ASA, HIPS, PA, PAHT, PC, PET, PPA, PPS Carbon/glass fiber reinforced: ABS, ASA, HIPS, PA, PAHT, PC, PET, PPA, PPS	Supported
	Filament Drying	Optional
Sensor	Live View Camera	Built-in; 1920*1080
	BirdsEye Camera	Optional; 3264*2448
	Door Sensor	Supported
	Filament Run Out Sensor	Supported
	Nozzle Clumping Sensor	Supported
	Filament Odometry	Supported
	Power Loss Recovery	Supported
Electrical Requirements	Voltage	High-voltage version: 200-240 VAC, 50/60 Hz Low-voltage version: 100-120 VAC, 50/60 Hz
	Max Power	High-voltage version: 1200 W @ 220 V Low-voltage version: 1000 W @ 110 V
	Standby Power	Wi-Fi disconnected: 11.7–12.2 W Wi-Fi connected: 12.2–12.7 W
	Steady-State Power	High-voltage version: PLA (25°C): 210 W @ 220 V Low-voltage version: PLA (25°C): 210 W @ 110 V
	Low Power Mode	950 W
Environmental Requirements	Operating Temperature	10 °C - 30 °C
Electronics	Touchscreen	5-inch 854*480 touchscreen
	Storage	Built-in 64 GB EMMC and USB port
	Control Interfaces	Touchscreen, mobile App, PC App
	Motion Controller	Single-core Cortex-M4 and single-core Cortex-M7
	Application Processor	Quad-core ARM with dedicated NPU

Item		Specification
Software	Slicer	Bambu Studio Supports third-party slicers which export standard G-code, such as Super Slicer, PrusaSlicer and Cura, but certain advanced features may not be supported.
Network Control	Ethernet	Not available
	Wireless Network	Wi-Fi 6
	Network Kill Switch	Not available
	Removable Network Module	Not available
	802.1X Network Access Control	Not available
Wi-Fi	Operating Frequency	2412 - 2472 MHz, 5150 - 5850 MHz (FCC/CE) 2400 - 2483.5 MHz, 5150 - 5850 MHz (SRRC)
	Wi-Fi Transmitter Power (EIRP)	2.4 GHz: < 23 dBm (FCC); < 20 dBm (CE/SRRC/MIC) 5 GHz Band1/2: < 23 dBm (FCC/CE/SRRC/MIC) 5 GHz Band3: < 30 dBm (CE); < 24 dBm (FCC) 5 GHz Band4: < 23 dBm (FCC/SRRC); < 14 dBm (CE)
	Wi-Fi Protocol	IEEE 802.11 a/b/g/n/ac/ax

Notes
1) For Bambu Lab filament, the initial weight can be read automatically through RFID or entered manually. For third-party filament, enter the initial weight manually.
2) The printer's voltage specifications vary by sales region. Before use, please check the label next to the power socket on the printer to ensure the supplied voltage matches the indicated voltage.
3) To quickly heat the heatbed to the required temperature, the printer will run at maximum power for about 3–5 minutes.
4) If the circuit has limited power capacity, you can enable Low Power Mode. After it is enabled, the total energy use remains unchanged, and the heatbed and chamber will heat up more slowly.
5) The printer comes standard with 5 PrintTools and supports switching between up to 7 Tools. You can purchase additional PrintTools or CraftTools as needed.

AMS 3P Specifications

Item		Specification
Body	Package Dimensions	460*555*485 mm
	Product Dimensions	405*505*425 mm
	Net Weight	6.6 kg
	Spool Capacity	7
	Housing	PC/ABS
Printing	Filaments Supported by the Feeding Funnel	PLA, PETG, PCTG, TPU for AMS, EVA, PE, PP, PHA, PVA, BVOH, support filament, ABS, ASA, HIPS, PC, PA, PET; Carbon/glass fiber reinforced: PLA, PETG, PA, PET, PC, ABS, ASA
	Filaments Supported by the Bypass Feed	TPU
	Filaments Supported by the external spool	PLA, PETG, PCTG, TPU, EVA, PE, PP, PHA, PVA, BVOH, support filament, ABS, ASA, HIPS, PC, PA, PET; Carbon/glass fiber reinforced: PLA, PETG, PA, PET, PC, ABS, ASA, PPA
	Supported Filament Diameter	1.75 mm, 2.85 mm (Bypass feed only)
	Supported Spool Dimension	Width: 50 mm - 68 mm Diameter: 197 mm - 202 mm
	RFID Identification	Supported
Drying	Max Drying Temperature	75 °C
	Drying Capacity	2
	Active Moisture Discharge	Supported
	Sealed Storage	Supported
	Temperature and Humidity Detection and Maintenance	Supported. Real-time temperature and humidity can be displayed on the screen, Bambu Studio, and Bambu Handy.
Power	Voltage	100-240 VAC, 50/60 Hz
	Max Power	65 W
	Steady-State Power	52 W