



HP LaserJet Enterprise A29Z5A#B19 multifunction printer Laser A4 1200 x 1200 DPI 50 ppm

Brand : HP

Product family: LaserJet Enterprise

Product code: A29Z5A#B19

Product name : A29Z5A#B19

HP LaserJet Enterprise A29Z5A#B19. Print technology: Laser, Printing: Mono printing, Maximum resolution: 1200 x 1200 DPI. Copying: Colour copying, Maximum copy resolution: 600 x 600 DPI. Scanning: Colour scanning, Optical scanning resolution: 600 x 600 DPI. Maximum ISO A-series paper size: A4. Product colour: Blue, White



Printing		Design	
Duplex printing mode	Auto	Control type	Touch
Print resolution black	1200 x 1200 DPI	Colour display	✓
Print technology *	Laser	Power	
Printing *	Mono printing	Power consumption (PowerSave)	0.02 W
Duplex printing *	✓	Power consumption (printing)	704.5 W
Maximum resolution *	1200 x 1200 DPI	Power consumption (ready)	18.7 W
Print speed (black, normal quality, A4/US Letter) *	50 ppm	Power consumption (sleep)	0.71 W
Warm-up time	120 s	Power consumption (off)	0.02 W
Time to first page (black, normal)	4.1 s	Energy Star Typical Electricity Consumption (TEC)	0.494 kWh/week
Watermark printing	✓	AC input voltage	100 - 240 V
Copying		AC input frequency	50/60 Hz
Duplex copying *	✓	Brand-specific features	
Copying *	Colour copying	HP Dynamic security	✓
Maximum copy resolution *	600 x 600 DPI		
Maximum copy size	A4		
Copy speed (black, normal quality, A4)	55 cpm		
Maximum number of copies	9999 copies		
Copier resize	25 - 400%		
Book copy function	✓		
Scanning			
Duplex scanning *	✓		
Scanning *	Colour scanning		
Optical scanning resolution *	600 x 600 DPI		
Maximum scan resolution	600 x 600 DPI		
Scanner type *	ADF scanner		
Scan to	OneDrive, File, Fax, USB, FTP, E-mail		
Scan speed (colour)	31 ppm		
Scan speed (black)	38 ppm		

Scanning		Brand-specific features	
Duplex scan speed (colour)	31 ppm		Identity management: Role Based Access Control (RBAC) Walk-up and Remote Access; Admin PW Protected EWS and Remote Access, Self-signed Certificate; Encrypted passwords; Personal on-device user accounts; Account Lockout (time-based); Kerberos AuthN; LDAP authentication; 1000 user PIN codes; Optional HP and 3rd party passwordless, MFA solutions (e.g.: badge readers); Protected Access (embedded) end user passwordless MFA for Microsoft Entra ID; Proximity card reader, single sign-on, smart card, CAC support. Network protection: IPsec/firewall with Certificate; Elliptic Curve Cryptography (ECC, EC-based certificates); Pre-Shared Key; Kerberos AuthN; Web Jetadmin fleet proxy; 802.1X (EAP-PEAP; EAP-TLS); SNMPv3; HTTPS with Server Certificate Validation; Certificate Provisioning and CA support; Access Control List. Data privacy and protection: Storage Encryption; Encrypted PDF & Email (uses FIPS 140 validated crypto libraries from Microsoft); Secure Erase with job storage (3x overwrite for HDD, cryptographic erase for SSD); SSL/TLS 1.2, TLS 1.3 support (HTTPS; Encrypted Credentials; Secure encrypted print support via UPD; AI-enabled Guided Redaction data security (select models). Device protection: Continuous malware monitoring; HP SureStart with Quantum Resistant BIOS firmware Integrity checking, PQC protection, and self-healing recovery; Allowlisting code validation (DLLs, EXEs, etc.) at time of use; Memory Shield hardware-enforced Runtime Intrusion Detection and Control Flow Integrity with self-healing recovery; AI-powered Connection Inspector network behavior anomaly detection with self-healing recovery; Trusted Platform Module 2.0; Configurable Service PIN; EU RED, UK PSTI, Australia Cybersecurity Act 2024 compliant; Embedded VPN (select HP Enterprise models); HP LaserJet Workflow Accelerator Card support (select HP MFP Enterprise models); Wi-Fi security; WPA Enterprise; Security lock slot; USB host port disablement; Hardware integration pocket (HIP). Testing, Validation, Governance, and Compliance: FIPS 140-2, 140-3, Common Criteria Certification; NIST security checklist; Supply Chain Security ISO/IEC 20243 Certifications. Fleet security management: HP Security Manager policy and device certificate management, fleet firmware vulnerability assessment; Compatible with Device Security Syslog Messages processed and accessible in SIEM tools; HP Workforce Experience Platform Support (select models); Original HP Enterprise Cartridge Security.
Image formats supported	TIFF, JPEG, MTIFF		
Document formats supported	PDF, TXT, RTF, XPS		
Greyscale levels	256		
Fax			
Fax resolution (black)	300 x 300 DPI		
Fax memory	1000 pages		
Auto-redialing	✓		
Fax forwarding	✓		
Fax delayed sending	✗		
Features			
Recommended duty cycle	2500 - 12500 pages per month	HP Security tools	
Maximum duty cycle *	150000 pages per month		
Number of print cartridges *	1		
Printing colours *	Black		
Page description languages	PDF 1.7, PCL 6		
Printer fonts	Scalable, TrueType, Windows, PCL, PostScript		
Country of origin	Thailand		
HP segment	Business		
Input & output capacity			
Total number of input trays *	2		
Total input capacity *	650 sheets		
Total output capacity *	250 sheets		
Paper tray 1 input capacity	100 sheets		
Paper tray 2 input capacity	550 sheets		
Multi-Purpose tray	✓		
Multi-Purpose tray input capacity	100 sheets		
Maximum number of input trays	5		
Maximum input capacity	2300 sheets		
Maximum output capacity	250 sheets		
Paper handling			
Maximum ISO A-series paper size *	A4		
Paper tray media types *	Plain paper, Bond paper, Recycled paper, Envelopes, Card stock, Labels, Transparencies, Rough paper, Letterhead		
ISO A-series sizes (A0...A9) *	A4, A5, A6		
ISO B-series sizes (B0...B9)	B5		
ISO C-series sizes (C0...C9)	C5, C6		
Non-ISO print media sizes	Oficio, 16K		
JIS B-series sizes (B0...B9)	B5, B6		
Envelopes sizes	B5, C5, C6, DL		
Photo paper sizes	10x15 cm		
Custom media width	76.2 - 216 mm		
Custom media length	127 - 356 mm		
Paper tray media weight	60 - 200 g/m²		
Envelope feeder	Yes		
Ports & interfaces			
USB port	✓		
USB 2.0 ports quantity	3		
Network			
Wi-Fi *	✗		
Ethernet LAN *	✓		
Ethernet LAN data rates	10,100,1000 Mbit/s		
Bluetooth	✓		
Security algorithms	SNMPv3, SSL/TLS, EAP-PEAP, EAP-TLS, TLS, FIPS 140, HTTPS, IPsec		

Network		System requirements	
Mobile printing technologies	Mopria Print Service, Apple AirPrint	Windows operating systems supported	Windows 10 x64, Windows 10, Windows 11 x64, Windows 11
Mac operating systems supported		Mac OS X 14.0 Sonoma, MacOS	
Other operating systems supported		ChromeOS, Android, iOS	
Performance		Operational conditions	
Maximum internal memory	4096 MB	Operating relative humidity (H-H)	10 - 80%
Internal memory *	4096 MB	Recommended humidity operating range	30 - 70%
Processor frequency	1600 MHz	Recommended operating temperature range (T-T)	15 - 27 °C
Sound pressure level (printing)	54 dB	Storage temperature (T-T)	-20 - 40 °C
Sound power level (printing)	6.9 dB	Operating temperature (T-T)	10 - 32.5 °C
Design		Certificates	
Product colour *	Blue, White	Certification	CISPR 22:2008 (International) Class A, CISPR 32:2015 (International) Class A / EN 55032:2015 Class A + A11:2020, CISPR 35:2016 (International) / EN 55035:2017 + A11:2020, EN IEC 61000-3-2:2019 + A11:2021, EN IEC 61000-3-3:2013+A1:2019 + A2:2021, FCC 47 CFR Part 15 Class A, ICES-003, Issue 7 Class A. Other EMC approvals as required by individual countries.
Built-in display *	✓		
Display	CGD		
Display diagonal	10.9 cm (4.3")		
Sustainability			
Sustainability certificates			ENERGY STAR, Blue Angel, EPEAT Gold
Sustainable technologies and materials			Recyclable through HP Planet Partners; Contains at least 5% post-consumer recycled plastic
Weight & dimensions			
Width			420 mm
Depth			400 mm
Height			455 mm
Weight			17.2 kg
Packaging data			
Package width			598 mm
Package depth			548 mm
Package height			629 mm
Package weight			23.8 kg
Packaging content			
Cartridge(s) included			✓
Included cartridge capacity (black)			6000 pages
Cables included			AC
Warranty card			✓
Logistics data			
Pallet gross weight			300 kg
Layers per pallet			3 pc(s)
Products per pallet			12 pc(s)
Technical details			
Box contents			HP LaserJet Enterprise MFP 5601dn; HP Original LaserJet Introductory Toner Cartridge (~6,000 pages); Regulatory flyer; Unpack flyer; Installation Guide; Power cord; Warranty Cards
Master (outer) cases per pallet layer			4 pc(s)
Compliance certificates			CECP, GS mark, CCC, BIS, cUL, UL, CE, BSMI

Other features	
Custom media sizes	Tray 1: 76.2 x 127 to 216 x 356 mm; Tray 2: 105 x 148 to 216 x 356 mm; Optional 550-sheet Tray: 105 x 148 to 216 x 356 mm; Envelope Feeder Accessory: 98 x 162 to 178 x 254 mm
Pallet dimensions (W x D x H)	1200 x 1100 x 2116 mm
Power supply type	Built-in 3-Pin 115V or 220V Internal Power Supply
Recommended system requirements	2 GB available hard disk space; Internet connection; For USB port; Internet browser. 2 GB available hard drive space; Internet connection; or USB port; Internet browser.
Compatible operating systems	Windows 11 (64-bit and ARM64); Windows 10 (32-bit, 64-bit and ARM64); Android; iOS; macOS 14 Sonoma; macOS 15 Sequoia; macOS Tahoe v26; Linux: Debian 10; Linux: Debian 11; Linux: Elementary 6P; Linux: Fedora 31; Linux: Fedora 32; Linux: Fedora 33; Linux: Fedora 34; Linux: Fedora 35; Linux: Linuxmint 20.1; Linux: Linuxmint 20.2; Linux: ManjaroLinux 20.2; Linux: ManjaroLinux 21.0.7; Linux: Mxlinux 21; Linux: OpenSuse 15.1; Linux: OpenSuse 15.2; Linux: OpenSuse 15.3; Linux: Rhel 6; Linux: Rhel 7; Linux: Rhel 8; Linux: Ubuntu 20.04; Linux: Ubuntu 20.10; Linux: Ubuntu 21.04; Linux: Ubuntu 21.10; Linux: Zorin 15; Linux: Zorin 16; Chrome OS
Pallet dimensions (W x D x H) (imperial)	1198.9 x 1099.8 x 2115.8 mm (47.2 x 43.3 x 83.3")
Acoustic pressure emissions bystander (ready)	14 dB
Typical electricity consumption (TEC) number	0.494 kWh/Week (Blue Angel); 0.542 kWh/Week (ENERGY STAR 3.0)
UNSPSC-code	43212110
Processor frequency	1.6 GHz
Electromagnetic compatibility	CISPR 22:2008 (International) Class A, CISPR 32:2015 (International) Class A / EN 55032:2015 Class A + A11:2020, CISPR 35:2016 (International) / EN 55035:2017 + A11:2020, EN IEC 61000-3-2:2019 + A11:2021, EN IEC 61000-3-3:2013+A1:2019 + A2:2021, FCC 47 CFR Part 15 Class A, ICES-003, Issue 7 Class A. Other EMC approvals as required by individual countries.



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