

HISTORIAL DE VERSIONES

FECHA	Preparado Por	Revisado por	VERSIÓN	COMENTARIOS
18/12/2019	Eliezer Beriguete	Rosalba Roa	V1.0	Elaboración de propuesta técnica



CONTENIDO

1.	INTRODUCCION	5
1.1	AVISO DE PROPIEDAD	5
1.2	ANTECEDENTES	5
2.	PRESENTACIÓN DE LA EMPRESA.....	7
2.1	Soluciones Globales	7
2.2	Ubicación	7
2.3	Productos y Servicios que ofrecemos	7
2.3.1	Nuestros Productos.....	7
2.3.2	Nuestros Servicios.....	8
2.4	Cartera de clientes y referencias del producto/servicio solicitado	8
3.	INFORMACIÓN DEL PRODUCTO	9
3.1	Componentes de la propuesta	9
3.2	Equipo de Trabajo	11
3.3	Información de Estándares de Calidad	12
4.	FACTORES CRITICOS DE ÉXITO	13
5.	PROCEDIMIENTO DE ADMINISTRACION DE CAMBIOS	15
6.	OTROS ANEXOS	17



1. INTRODUCCION

SOLUCIONES GLOBALES es una importante empresa de tecnología de la República Dominicana y uno de los principales socios de negocios de HP en el País.

1.1 AVISO DE PROPIEDAD

Restricciones de uso y divulgación del contenido de esta propuesta.

La información contenida en la totalidad de este documento constituye un secreto de marca y/o información comercial o financiera que está clasificada como confidencial.

Cualquier asunto relacionado con el presente documento favor de dirigirlo a:

Jose Mateo- CEO
Soluciones Globales
ventas@soluciones-globales.net

Celso J. Ramírez- Director de Servicios
Soluciones Globales
servicios@soluciones-globales.net

1.2 ANTECEDENTES

Asumiendo el desafío que nos impone el avance Tecnológico de estos tiempos SOLUCIONES GLOBALES, Surge en el 2004 como una empresa Integradora de alternativas y Servicios, Orientada al desarrollo e Implementación de Soluciones Inteligentes y Versátiles que garantizaran el éxito de la empresa y el nuestro.

Buscamos garantizar la más alta disponibilidad de la información de las empresas, sin importar su tamaño, al tiempo que la ayudamos a obtener el mejor provecho de la data desde la creación y almacenamiento hasta su eventual eliminación. Proveemos la administración del ciclo de vida de la información.



El presente documento tiene como objetivo presentar una propuesta para implementar una solución que contribuya al logro de esos objetivos, tomando como base la lista de necesidades identificadas.



2. PRESENTACIÓN DE LA EMPRESA

Esta sección da detalles del perfil de los proveedores involucrados en la implementación de la solución propuesta

2.1 SOLUCIONES GLOBALES



SOLUCIONES GLOBALES, desde 2004, ha orientado sus esfuerzos en proveer a sus clientes soluciones y servicios informáticos de calidad Premium que superen sus expectativas.

Soluciones Globales S.A. es una empresa nacional del área de tecnología de información, con sede principal en Santo Domingo, DN, República Dominicana, especializada en la implementación, soporte y comercialización de sistemas de hardware y software empresariales.

Hoy Soluciones Globales tiene presencia en la mayoría de las instituciones financieras y de telecomunicaciones de la República Dominicana y es reconocida por su cumplimiento, calidad y servicios.

2.2 UBICACIÓN

DIRECCION: Av. 27 de Febrero No. 329. Torre Elite. Suite 402

Teléfono: 809-566-6601

WEB: <http://soluciones-globales.net>

Audiencia: Elite – Tecnología CORPORATIVA

2.3 PRODUCTOS Y SERVICIOS QUE OFRECEMOS

2.3.1 NUESTROS PRODUCTOS

Bases de datos
Virtualización
Networking
Servidores
Monitoreo

Sistemas de Almacenamiento
Replicación
Exchange
Backups
Cloud Services



Soluciones Globales cuenta con servicios, productos y soluciones basadas en la estrategia de la gestión del ciclo de vida de la información.

Ya sea que tenga como objetivo la reducción de costos, el cumplimiento de regulaciones, mejores niveles de servicio y mayor disponibilidad, Soluciones Globales le ayuda a evaluar cuidadosamente la mejor forma de administrar su información y transformar su entorno.

Somos de las pocas compañías en el mercado local que cuenta con alianzas y apoyo total de las compañías líderes mundiales en la provisión de soluciones tecnológicas, tales como: Dell EMC, Oracle, Cisco, VMware, VCE, Dell, CA, etc.

2.3.2 NUESTROS SERVICIOS

Ponemos a disposición de nuestros clientes personal altamente calificado para brindar servicios de soporte tanto preventivo (capacity plan, assessments, upgrades, patches, integración), como correctivo para sus Sistemas de almacenamiento, Servidores, Networking, Virtualización, Correo Electrónico y Bases de Datos.

2.4 CARTERA DE CLIENTES Y REFERENCIAS DEL PRODUCTO/SERVICIO SOLICITADO

Entre estos podemos mencionar a: Banco BHD Leon, Banco Popular Dominicano, Banreservas, Banco Santacruz, Centro Cuesta Nacional, Claro Dominicana, Ministerio de Hacienda, Orange Dominicana, Tricom, PUCMM, Banco Ademi, Banco BDI, Seguros Sura, Aeropuerto Internacional del Cibao, Superintendencia de Valores, CEVALDOM, Bolsa de Valores, Barrick, Farmacia Carol, Kio Networks y muchos otros.

Referencias			
Banco BDI	Lic. Angel Andujar	809-535-8586	Networker/Data Domain/SRM/Recoverpoint Vmware/VNX/Brocade/UNITY 400
Bolsa de Valores	Cristian Velázquez	809-567-6694	Vmware/Srm/Rpa/Vmware
Cevaldom	Luis Suarez	809-227-0100	Data Domain/networker replication
Banco Ademi	Ing. Ariel Reyes	829-679-0161	Data Domain/networker/Vnx RecoverPoint
Banco Adopem	Ing. Juan Terrero	809-292-7720	Clariions/SAN/Oracle
WorldWide Seguros	Ing. ^{Diego} Guzman	809-567-6694	UNITY 300/SAN
ADESS	Ing. ^{Henry} Martínez	809-299-9060	Networker/Data Domain/VNX/Brocade
PUCMM	Ing. ^{Steven} Sanchez	809-747-3578	VNX/VMware/ RecoverPoint
Cámara de Diputados	Ing. Joel Ramos	809-669-7725	Networker/Data Domain/VNX
Banco BACC	Ing. Rafael Perez	809-562-6473	VNX/SRM/RecoverPoint/Vmware/UC S



3. INFORMACIÓN DEL PRODUCTO

Esta sección define detalles sobre la solución técnica propuesta, así como el esquema de soporte aplicable a la misma

3.1 COMPONENTES DE LA PROPUESTA

Lote I, ítem 1: 750 Computadoras (AIO) – All in one con las siguientes características:

- Marca: HP.
- Modelo: Elite One 800G4.
- Chasis: All-in-One, con los componentes integrados en el monitor, no en la base.
- Base reclinable, ergonómica articulada / Pivot, la cual permite giros en ángulos desde -5° hasta + 65° (+/- 3 °).
- Pantalla WLED táctil 24" Wide FHD IPS.
- Procesador Intel i5-8500 de 8va generación
- Desde 8GB Memoria RAM.
- Disco Duro SSD: 256GB SATA 6.0gb.
- Unidad Óptica: DVD-RW DL.
- USB C, USB 3.1 & USB 2.0
- Bluetooth 4.0 LE
- Wi-Fi 802.11a/b/g/n/ac.
- Gigabit Ethernet (RJ-45).
- HDMI / DisplayPort 1.2 Out.
- Lector de huellas integrado.
- Cámara frontal.
- Card reader (SD, SDHC, SDXC, microSD, microSDHC, microSDXC).
- Chip Trusted Platform Module TPM 2.0
- Mouse y teclado USB.
- Microsoft Windows 10 Pro 64bit.
- Garantía de 3 años

Lote I, ítem 2: 750 UPS regulados de 900W

- Regulado de 900 watts.
- Garantía: 3 Años



Lote IV: 2 Servidores para Clúster de Virtualización

- Marca: HP.
- Modelo: 580 Gen 10.
- (4) Intel® Xeon® Scalable 8260 (24 core, 2.4 GHz, 35.75MB).
- 2TB RAM DDR4 SmartMemory (32 x 64GB).
- (2) 10/25 GB 640FLR Ethernet adapter, 2-ports per controller.
- (2) SSD SAS 12G Write Intensive SFF 2.5 (Inch) 400GB.
- (4) 1600W Flex Slot Platinum hot plug power supplies.
- Dos (2) SSD SAS 12G Write Intensive SFF 2.5 (Inch) 400GB.
- iLO Advanced Licence.
- Garantía de 3 años en piezas y servicios



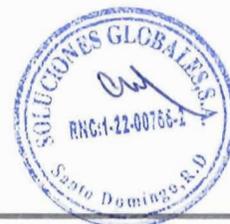
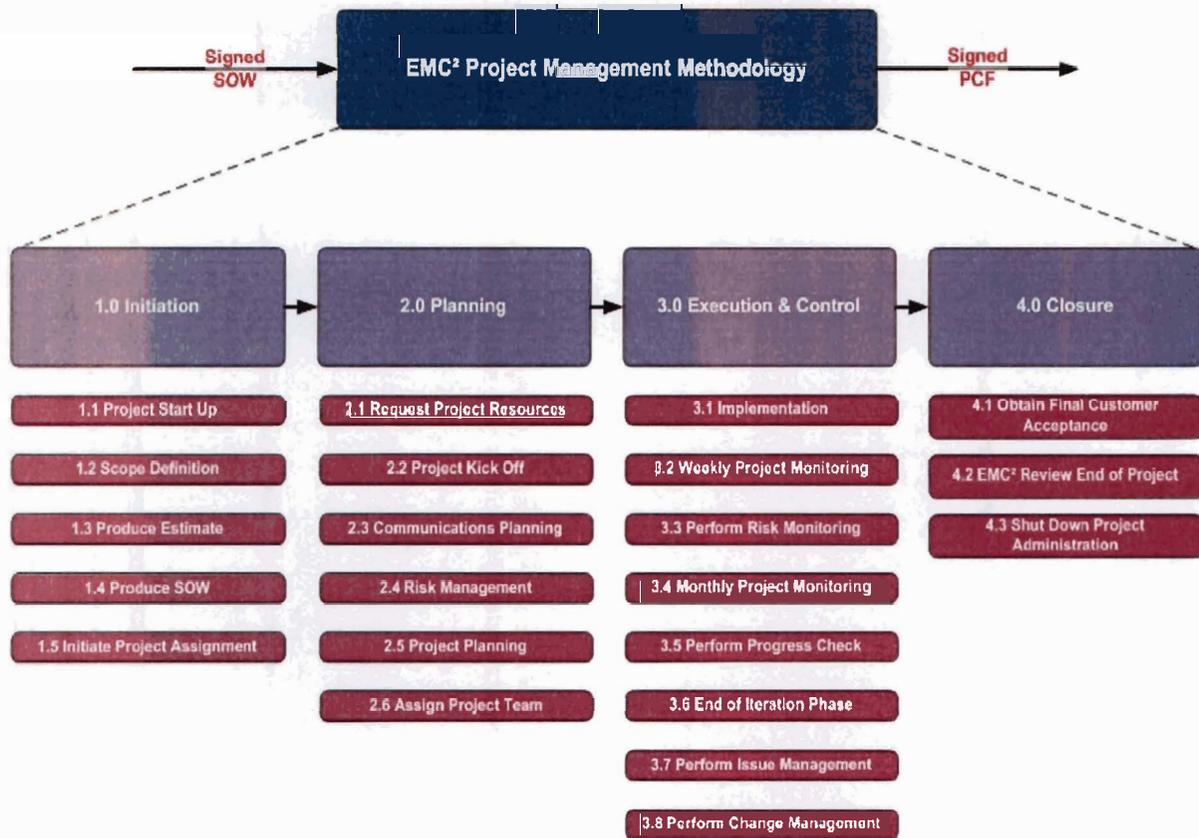
3.2 EQUIPO DE TRABAJO

Función	Nombres	Ho
Ingeniero de campo	Eliezer Beriguete	Certificado Cisco CCNA Datacenter, Certificado en EMC Portafolio 2018, EMC Solutions 2018 & EMC Implementation Specialist
Ingeniero de campo	Mortimer Echavarria	Certificado en EMC Portafolio 2018 & EMC Solutions 2018
Project Manager	Celso Ramirez	Cuenta con más de 21 años de experiencia en el área habiendo ocupado posiciones de dirección de Tecnología en empresas reconocidas del País.



3.3 INFORMACIÓN DE ESTÁNDARES DE CALIDAD

Soluciones Globales y EMC siguen en la gestión de sus proyectos, la metodología que se muestra en el diagrama que aparece a continuación, basada en los estándares que establece Project Management Institute (PMI®), asociación líder en la profesión de Administración y Gestión de Proyectos:



4. FACTORES CRITICOS DE ÉXITO

Los Factores Críticos de Éxito son aspectos que, formando o no parte del proyecto, pueden tener un impacto significativo en el éxito o fracaso del mismo.

El éxito del proyecto que se describe en este documento dependerá del cumplimiento de condiciones y/o supuestos mínimos. Esos **factores críticos** son descritos a continuación:

- 1) Se debe nombrar a un responsable del Proyecto por parte del Cliente, el cual debe tener dedicación exclusiva al proyecto durante las actividades y etapas críticas de este, según se establece en el Plan.
- 2) El entrenamiento está basado en material genérico de entrenamiento, utilizando método presencial de entrega bajo la modalidad "Knowledge Transfer", para un máximo de 5 participantes los cuales tendrán el compromiso de asistir a las sesiones.
- 3) Cualquier cambio de alcance debe seguir el Procedimiento de Administración de Cambios.
- 4) El Cliente deberá revisar y aprobar los productos del proyecto dentro de los tiempos establecidos para tal fin.
- 5) El Cliente deberá proporcionar, según sea necesario, estaciones de trabajo que permitan a Soluciones Globales obtener acceso al software identificado en la sección alcance del proyecto.
- 6) El Cliente debe asignar un recurso técnico líder para que actúe como único punto de contacto técnico entre el cliente y Soluciones Globales, según sea necesario, durante la contratación.
- 7) El Cliente debe facilitar ventanas de mantenimiento del sistema adecuadas según sea necesario para que Soluciones Globales (o sus agentes autorizados) preparen el equipo.
- 8) El Cliente debe asumir la responsabilidad de todos los problemas de conectividad, desempeño y configuración de su red de datos.
- 9) Se debe identificar el nivel actual del conjunto de parches del sistema operativo necesario para esta implementación e instalar las actualizaciones recomendadas antes del comienzo de la implementación.
- 10) El cliente debe asegurar que exista un proceso adecuado de respaldo y restauración.
- 11) El cliente debe obtener y proporcionar todos los acuerdos de mantenimiento y las licencias de terceros que se necesiten para que Soluciones Globales complete el proyecto.



- 12) El cliente debe proporcionar el personal adecuado para brindar apoyo en la formación de racks y el agrupamiento de equipos.
- 13) El cliente debe garantizar que las condiciones de trabajo permitan el cumplimiento satisfactorio del proyecto.
- 14) Se recomienda asignar un patrocinador del proyecto como único punto de contacto para resolver problemas, calendarizar actividades y entrevistas, y recopilar y difundir información. El patrocinador del proyecto es responsable de asegurar el cumplimiento de las obligaciones del cliente.



5. PROCEDIMIENTO DE ADMINISTRACION DE CAMBIOS

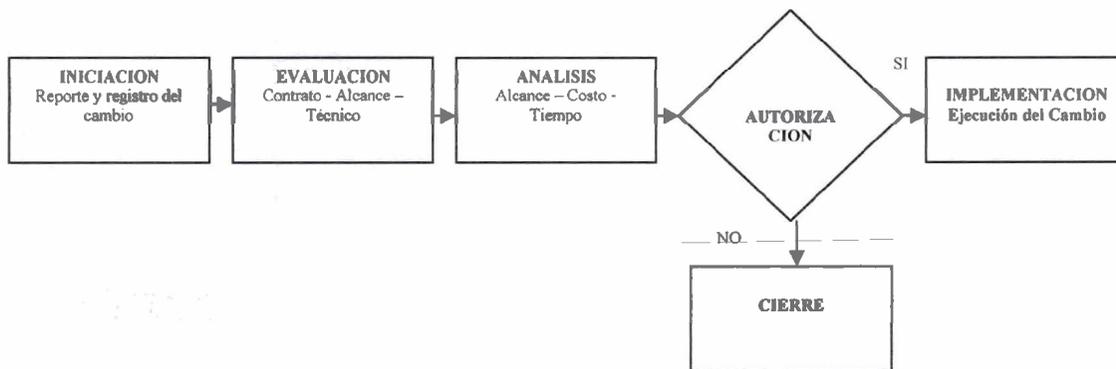
Aun cuando se establezca claramente el alcance y los objetivos de un proyecto, se deben proveer los medios para realizar cambios cuando sea necesario

Uno de los objetivos más importantes a cumplir durante la ejecución de todo proyecto de IT es lograr que las condiciones en las cuales se realizan las actividades se mantengan constantes durante toda la ejecución del mismo. Esta es una premisa básica para lograr que la planificación y presupuesto del proyecto se cumplan; sin embargo, en ocasiones se producen cambios que deben ser manejados durante la ejecución del proyecto de manera de cumplir con los objetivos fundamentales que se hayan planteado.

Los *Cambios al Proyecto* pueden resultar en un incremento, disminución o ningún impacto en el costo y/o duración del Proyecto. Los Cambios al Proyecto siempre deben ser documentados y aceptados antes de su realización.

Se define un *Cambio al Proyecto* como una desviación de, o modificación a, cualquier documento aprobado o producto inicialmente definido, tal como la presente Propuesta de Servicios, Plan de Trabajo, especificaciones de programas, código de programa, plan de pruebas, resultado de pruebas o reporte impreso.

Para poder identificar y controlar estos eventos se establece el proceso de administración de cambios, como se ilustra a continuación:



Tanto EL CLIENTE como Soluciones Globales pueden iniciar un cambio en el proyecto. El cambio será evaluado para determinar los aspectos técnicos y de alcance afectados por su eventual ejecución. Se analizará y documentará el impacto en términos técnicos, de costo y de alcance. Contando con estos elementos, se procesará el cambio para determinar la ejecución o el cierre de la solicitud.



6. OTROS ANEXOS



HP EliteOne 800 G4 23.8-inch Touch All-in-One PC



Powered for the enterprise

Modernize any workspace with an AiO PC that makes a great first impression. The HP EliteOne AiO delivers serious performance, engaging collaboration, multi-faceted security, and purposeful manageability in a stunning and sleek 23.8-inch diagonal micro-edge bezel design.



HP recommends Windows 10 Pro.

- Windows 10 Pro¹
- 23.8" diagonal screen

Amazing from any angle

- Count on this purposefully designed AiO to impress. Work in style on the elegant HP EliteOne 800 AiO with its thin profile, micro-edge anti-glare touch display, and superb cable management.

Performance first

- Users will enjoy powerful 8th Gen Intel® Core™ processors², Intel® Optane™ memory³ and optional AMD Radeon™ discrete graphics⁴.

Strong security, powerful manageability

- Get powerful protection and simplified management from our most secure and manageable PCs. HP Sure Start Gen4⁶ protects against BIOS attacks while the HP Manageability Integration Kit⁷ allows you to easily manage devices through Microsoft System Center Configuration Manager.

See and hear them clearly

- Collaborate with the sharpness of a face-to-face meeting on the 23.8-inch diagonal FHD touch display with crystal-clear audio and either a front-facing pop-up IR camera with a rear-facing FHD Camera⁸, or a front facing pop-up FHD camera⁸.

Featuring

- Power through your day with Windows 10 Pro with built-in security, collaboration, and connectivity.
- Protect the firmware that antivirus can't reach! The hardware-enforced self-healing protection offered by HP Sure Start Gen4 automatically recovers the BIOS from malware, rootkits, or corruption.
- Keep your critical applications and processes running even if malware tries to shut them down with self-healing protection.
- Help protect your PC from websites, attachments, malware, ransomware, and viruses with hardware-enforced security from HP Sure Click.
- Quickly and securely restore PCs to the latest image using a network connection with HP Sure Recover.
- Improve the quality and security of custom Windows images with HP Image Assistant Gen3 which assists ITDMs with image creation, identifies problems, and provides recommendations and remediation.
- The HP Manageability Integration Kit helps speed up image creation and management of hardware, BIOS, and security through Microsoft System Center Configuration Manager.
- Fortify your security with up to three authentication factors including fingerprints and facial recognition.



HP EliteOne 800 G4 23.8-inch Touch All-in-One PC Specifications Table



Available Operating Systems	Windows 10 Pro 64 – HP recommends Windows 10 Pro. ¹ Windows 10 Pro 64 (National Academic only) ² Windows 10 Home 64 ¹ Windows 10 Home Single Language 64 ¹ FreeDOS
Processor family ^{19,21}	Intel® Celeron® processor (G4900 is Windows 10 only); 8th Generation Intel® Core™ i7 processor (i7-8700); 8th Generation Intel® Core™ i7 + processor (Core™ i7 and Intel® Optane™ memory); 8th Generation Intel® Core™ i5 + processor (Core™ i5 and Intel® Optane™ memory); Intel® Pentium® processor (G5400, G5400T, G5500, G5500T, G5600 are Windows 10 only); 8th Generation Intel® Core™ i5 processor (i5-8500, i5-8600); 8th Generation Intel® Core™ i3 processor (i3-8100, i3-8300)
Available Processors ^{3,20,22}	Intel® Core™ i3-8100 with Intel® UHD Graphics 630 (3.6 GHz, 6 MB cache, 4 cores); Intel® Celeron® G4900 with Intel® UHD Graphics 610 (3.1 GHz, 2 MB cache, 2 cores); Intel® Pentium® Gold G5400 with Intel® UHD Graphics 610 (3.7 GHz, 4 MB cache, 2 cores); Intel® Core™ i3-8300 with Intel® UHD Graphics 630 (3.7 GHz, 8 MB cache, 4 cores); Intel® Pentium® Gold G5600 with Intel® UHD Graphics 630 (3.9 GHz, 4 MB cache, 2 cores); Intel® Pentium® Gold G5500T with Intel® UHD Graphics 630 (3.2 GHz, 4 MB cache, 2 cores); Intel® Pentium® Gold G5400T with Intel® UHD Graphics 610 (3.1 GHz, 4 MB cache, 2 cores); Intel® Pentium® Gold G5500 with Intel® UHD Graphics 630 (3.8 GHz, 4 MB cache, 2 cores); Intel® Core™ i7-8700 vPro™ processor with Intel® UHD Graphics 630 (3.2 GHz base frequency, up to 4.6 GHz with Intel® Turbo Boost Technology, 12 MB cache, 6 cores); Intel® Core™ i7 + 8700 vPro™ processor (Core™ i7 and 16 GB Intel® Optane™ memory) with Intel® UHD Graphics 630 (3.2 GHz base frequency, up to 4.6 GHz with Intel® Turbo Boost Technology, 12 MB cache, 6 cores); Intel® Core™ i5-8600 vPro™ processor with Intel® UHD Graphics 630 (3.1 GHz base frequency, up to 4.3 GHz with Intel® Turbo Boost Technology, 9 MB cache, 6 cores); Intel® Core™ i5 + 8600 vPro™ processor (Core™ i5 and 16 GB Intel® Optane™ memory) with Intel® UHD Graphics 630 (3.1 GHz base frequency, up to 4.3 GHz with Intel® Turbo Boost Technology, 9 MB cache, 6 cores); Intel® Core™ i5-8500 vPro™ processor with Intel® UHD Graphics 630 (3 GHz base frequency, up to 4.1 GHz with Intel® Turbo Boost Technology, 9 MB cache, 6 cores); Intel® Core™ i5 + 8500 vPro™ processor (Core™ i5 and 16 GB Intel® Optane™ memory) with Intel® UHD Graphics 630 (3 GHz base frequency, up to 4.1 GHz with Intel® Turbo Boost Technology, 9 MB cache, 6 cores)
Chipset	Intel® Q370
Form factor	All-in-one
Maximum memory	32 GB DDR4-2666 SDRAM ^{4,13} Transfer rates up to 2666 MT/s
Memory slots	2 SODIMM
Internal storage	500 GB up to 1 TB 7200 rpm SATA ⁵ up to 2 TB 5400 rpm SATA ⁵ up to 500 GB SATA SED Opal 2 HDD ⁵ up to 500 GB 7200 rpm SATA FIPS SED ⁵ 256 GB up to 512 GB SATA SED Opal 2 TLC SSD ⁵ 256 GB up to 512 GB SATA FIPS SSD ⁵ 128 GB up to 512 GB PCIe® NVMe™ M.2 SSD ⁵ 128 GB up to 1 TB PCIe® NVMe™ TLC M.2 SSD ⁵ 256 GB up to 512 GB PCIe® NVMe™ SED Opal 2 TLC M.2 SSD ⁵ 128 GB up to 512 GB SATA SSD ⁵
Optical drive	HP 9.5 mm Slim Blu-ray writer double layer; HP 9.5 mm Slim DVD-ROM double layer; HP 9.5 mm Slim DVD-Writer double layer ^{17,41}
Display	23.8" diagonal FHD IPS widescreen WLED-backlit touch screen (1920 x 1080)
Available Graphics	Integrated: Intel® UHD Graphics 630; Intel® UHD Graphics 610
Audio	Audio by Bang & Olufsen, headset and headphone side ports (3.5 mm), line out rear port (3.5 mm), high performance integrated stereo speakers ¹⁸
Expansion slots	1 M.2 2230; 2 M.2 2230/2280 (1 M.2 2230 slot for WLAN and 2 M.2 2230/2280 slot for storage.)
Ports and Connectors	Side: 1 headphone; 1 headset connector Bottom: 1 audio-out; 1 DisplayPort™ 1.2; 1 HDMI; 1 power connector; 1 RJ-45; 2 USB 3.1 Gen 1; 4 USB 3.1 Gen 2; 1 USB 3.1 Type-C™ Gen 2 ⁶ Optional: 1 SD 4 card reader
Input devices	HP Conferencing Keyboard; HP USB Business Slim Keyboard; HP USB Keyboard; HP Wireless Business Slim Keyboard and Mouse Combo; HP Wireless Collaboration Keyboard ¹⁴ ; HP USB 1000 dpi Laser Mouse; HP USB Antimicrobial Mouse; HP USB Hardened Mouse; HP USB Optical Mouse; HP USB Premium Mouse ^{8,16} ;
Communications	LAN: Integrated Intel® I219LM GbE LOM; WLAN: Realtek RTL8822BE-CG 802.11 a/b/g/n/ac (2x2) with Bluetooth® 4.1 M.2 PCIe®; Intel® Dual Band Wireless-AC 9560 802.11ac (2x2) and Bluetooth® 5 M.2, non-vPro™; Intel® Dual Band Wireless-AC 9560 802.11ac (2x2) and Bluetooth® 5 M.2, vPro™; Realtek RTL8821CE-CG 802.11 a/b/g/n/ac (1x1) with Bluetooth® 4.2 M.2 PCIe® ⁷ ;
Drive Bays	One 2.5" HDD
Camera	2 MP full HD pop-up webcam with integrated dual array digital microphone, maximum resolution of 1920 x 1080; 2 MP, 1080p, FHD pop-up Camera with IR sense (front) and 2 MP webcam (rear) with integrated dual array digital microphone, maximum resolution of 1920 x 1080, IR camera for face authentication with Windows Hello ¹⁷
Environmental	Operating temperature: 10 to 35°C; Operating humidity: 10 to 90% RH
Available Software	Absolute Persistence module; HP Hotkey Support; HP Noise Cancellation Software; HP Support Assistant; Intel® Unite™ with Skype for Business plug-in; Native Miracast Support; HP Wireless Wakeup; Buy Office (sold separately); HP Sure Recover; HP JumpStarts ^{9,23,25,27,28}
Security management	DriveLock; Hood sensor; HP BIOSphere; HP Password Manager; HP Power On Authentication; Intel® Identity Protection Technology (Intel® IPT); Power-on password (via BIOS); RAID configurations; Removable media write/boot control; SATA port disablement (via BIOS); Setup password (via BIOS); USB enable/disable (via BIOS); HP Client Security Suite Gen 4; HP Sure Start Gen 4; HP Sure Run; Fingerprint reader; Parallel enable/disable (via BIOS); Serial enable/disable (via BIOS); Trusted Platform Module TPM 2.0 Embedded Security Chip shipped with Windows 10 (Common Criteria EAL4+ Certified)(FIPS 140-2 Level 2 Certified) ^{11,31,32,34,35,36,37,38,39,40}
Management features	HP BIOS Config Utility (download); HP Client Catalog (download); HP Driver Packs (download); HP System Software Manager (download); Ivanti Management Suite; HP Management Integration Kit for Microsoft System Center Configuration Management Gen 2 ^{10,29,30}
Power	180 W internal power supply, up to 90% efficiency, active PFC
Dimensions	53.96 x 18.02 x 46.77 cm (With basic stand.)
Weight	8.73 kg (Lowest weight configuration with adjustable height stand. Weight will vary by configuration.)
Energy efficiency compliance	ENERGY STAR® certified; EPEAT® registered; CECP ¹²
Environmental specifications	Low halogen ¹⁵



HP EliteOne 800 G4 23.8-inch Touch All-in-One PC

Accessories and services (not included)

HP Wireless Slim Business Keyboard



Enjoy easy data entry and wireless connectivity with the HP Wireless Business Slim Keyboard, designed to complement the 2015 class of HP Business PCs.

Product number: N3R88AA

HP Keyed Cable Lock 10 mm



Help keep your notebook safe in the office and high-traffic areas by tethering it to a secure surface with the HP Master Keyed Cable Lock 10mm, designed specifically for ultra-thin profile notebooks.

Product number: T1A62AA

HP EliteOne G3 800 AIO Recline Stand



Create a customized workspace for your HP All-in-One with the HP EliteOne 800 G3 AIO Recline Stand, which allows you to recline the system for maximum usability in a range of settings.

Product number: Z9H67AA

HP 3-year Next Business Day Onsite Optional Customer Self Repair Desktop/Workstation Only Hardware Service



Receive 3 years of next business day onsite repair from an HP-qualified technician for your computing device, if the issue cannot be solved remotely. For more information on Care Pack services, please visit www.hp.com/go/cpc.

Product number: UE379E



HP EliteOne 800 G4 23.8-inch Touch All-in-One PC

Messaging Footnotes

- ¹ Not all features are available in all editions or versions of Windows. Systems may require upgraded and/or separately purchased hardware, drivers, software or BIOS update to take full advantage of Windows functionality. Windows 10 is automatically updated, which is always enabled. ISP fees may apply and additional requirements may apply over time for updates. See <http://www.windows.com>.
- ² Multi-Core is designed to improve performance of certain software products. Not all customers or software applications will necessarily benefit from use of this technology. Performance and clock frequency will vary depending on application workload and your hardware and software configurations. Intel's numbering, branding and naming are not a measurement of higher performance.
- ³ Intel® Optane™ memory system acceleration does not replace or increase the DRAM in your system and requires configuration with an optional Intel® Core™ i5 or 7+ processor.
- ⁴ AMD Radeon™ graphics sold separately and must be configured at the factory.
- ⁵ HP Sure Start Gen4 is available on HP Elite and HP Pro 600 products equipped with 8th generation Intel® or AMD processors.
- ⁶ HP Manageability Integration Kit can be downloaded from <http://www8.hp.com/us/en/ads/clientmanagement/overview.html>.
- ⁷ Sold as an optional feature must be configured at the factory.
- ⁸ HP Sure Run is available on HP Elite products equipped with 8th generation Intel® or AMD processors.
- ⁹ HP Sure Click is available on most HP PCs and supports Microsoft® Internet Explorer and Chromium™. Supported attachments include Microsoft Office (Word, Excel, PowerPoint) and PDF files in read only mode, when Microsoft Office or Adobe Acrobat are installed.
- ¹⁰ HP Sure Recover is available on HP Elite PCs with 8th generation Intel® or AMD processors and requires an open, wired network connection. Not available on platforms with multiple internal storage drives or Intel® Optane™. You must back up important files, data, photos, videos, etc. before using HP Sure Recover to avoid loss of data.
- ¹¹ HP Multi Factor Authenticate Gen2 requires Windows, 7th or 8th generation Intel® Core™ processor, Intel® integrated graphics, and Intel® WLAN. Microsoft System Center Configuration Manager is required for deployment. Three authentication factors require Intel® vPro™.

Technical Specifications Footnotes

- ¹ Not all features are available in all editions or versions of Windows. Systems may require upgraded and/or separately purchased hardware, drivers, software or BIOS update to take full advantage of Windows functionality. Windows 10 is automatically updated, which is always enabled. ISP fees may apply and additional requirements may apply over time for updates. See <http://www.windows.com>.
- ² Some devices for academic use will automatically be updated to Windows 10 Pro Education with the Windows 10 Anniversary Update. Features vary; see <https://aka.ms/ProEducation> for Windows 10 Pro Education feature information.
- ³ Multi-core is designed to improve performance of certain software products. Not all customers or software applications will necessarily benefit from use of this technology. Performance and clock frequency will vary depending on application workload and your hardware and software configurations. Intel's numbering, branding and naming is not a measurement of higher performance.
- ⁴ For systems configured with more than 3 GB of memory and a 32-bit operating system, all memory may not be available due to system resource requirements. Addressing memory above 4 GB requires a 64-bit operating system. Memory modules support data transfer rates up to 2133 MT/s; actual data rate is determined by the system's configured processor. See processor specifications for supported memory data rate. All memory slots are customer accessible / upgradeable.
- ⁵ For hard drives and solid state drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 36 GB (for Windows 10) of system disk is reserved for the system recovery software.
- ⁶ Wireless access point and internet service required.
- ⁷ Antimicrobial USB Mouse and HP USB Hardened Mouse are not available in all regions.
- ⁸ Miracast is a wireless technology your PC can use to project your screen to TVs, projectors, and streaming.
- ⁹ HP Driver Packs: Not preinstalled, however available for download at <http://www.hp.com/go/clientmanagement>.
- ¹⁰ HP BIOSphere Gen4: Requires Intel® or AMD 8th Gen processors. Features may vary depending on the platform and configurations.
- ¹¹ Based on US EPEAT® registration according to IEEC 1680.1-2018 EPEAT®. Status varies by country. Visit www.epeat.net for more information.
- ¹² All memory slots are customer accessible / upgradeable.
- ¹³ HP USB and PS/2 Washable Keyboard: PS/2 port not available on EliteOne 800 G4 AIOs.
- ¹⁴ External power supplies, power cords, cables and peripherals are not Low Halogen. Service parts obtained after purchase may not be Low Halogen.
- ¹⁵ HP USB and PS/2 Washable Mouse: PS/2 port not available on EliteOne 800 G4 AIOs.
- ¹⁶ Sold separately or as an optional feature.
- ¹⁷ All HP devices which carry the Bang & Olufsen brand are custom-tuned with Bang & Olufsen's acoustical engineers for precise sound experience in business use.
- ¹⁸ Your product does not support Windows 8 or Windows 7. In accordance with Microsoft's support policy, HP does not support the Windows 8 or Windows 7 operating system on products configured with Intel® 8th generation and forward processors or provide any Windows 8 or Windows 7 drivers on <http://www.support.hp.com>.
- ¹⁹ Some functionality of vPro, such as Intel Active Management Technology and Intel Virtualization Technology, requires additional 3rd party software in order to run. Availability of future "virtual appliances" applications for Intel vPro technology is dependent on 3rd party software providers. Compatibility with future "virtual appliances" is yet to be determined.
- ²⁰ Intel® Optane™ memory system acceleration does not replace or increase the DRAM in your system and requires configuration with an optional Intel® Core™ i5 or 7+ processor.
- ²¹ Intel® Turbo Boost technology requires a PC with a processor with Intel Turbo Boost capability. Intel Turbo Boost performance varies depending on hardware, software and overall system configuration. See www.intel.com/technology/turboboost for more information.
- ²² Absolute Persistence Module: Absolute agent is shipped turned off, and will be activated when customers activate a purchased subscription. Subscriptions can be purchased for terms ranging multiple years. Service is limited, check with Absolute for availability outside the U.S. The Absolute Recovery Guarantee is a limited warranty. Certain conditions apply. For full details visit: <http://www.absolute.com/company/legal/agreements/computrace-agreement>. Data Delete is an optional service provided by Absolute Software. If utilized, the Recovery Guarantee is null and void. In order to use the Data Delete service, customers must first sign a Pre-Authorization Agreement and either obtain a PIN or purchase one or more RSA SecurID tokens from Absolute Software.
- ²³ HP Support Assistant: Requires Windows and Internet access.
- ²⁴ HP Sure Recover: Is available on HP Elite PCs with 8th generation Intel® or AMD processors and requires an open, wired network connection. Not available on platforms with multiple internal storage drives, Intel® Optane™. You must back up important files, data, photos, videos, etc. before use to avoid loss of data.
- ²⁵ Intel® Unite™ with Skype for Business plug-in: Sold separately or as an optional feature.
- ²⁶ HP Manageability Integration Kit: Can be downloaded from <http://www8.hp.com/us/en/ads/clientmanagement/overview.html>.
- ²⁷ Ivanti Management Suite: Subscription required.
- ²⁸ HP Client Security Suite Gen 4: Requires Windows and Intel® or AMD 8th generation processors.
- ²⁹ HP Password Manager: Requires Internet Explorer or Chrome or Firefox. Some websites and applications may not be supported. User may need to enable or allow the add-on / extension in the internet browser.
- ³⁰ Microsoft Defender: Opt in and internet connection required for updates.
- ³¹ HP Sure Start Gen4: is available on HP Elite and HP Pro 600 products equipped with 8th generation Intel® or AMD processors.
- ³² Firmware TPM: Is version 2.0. Hardware TPM is v1.2, which is a subset of the TPM 2.0 specification version v0.89 as implemented by Intel Platform Trust Technology (PTT).
- ³³ RAID configuration: Is optional and does require a second hard drive.
- ³⁴ HP Sure Run: Is available on HP Elite products equipped with 8th generation Intel® or AMD processors.
- ³⁵ Intel® Identity Protection Technology (Intel® IPT): Models configured with Intel® Core™ processors have the ability to utilize advanced security protection for online transactions. Intel® Identity Protection Technology (Intel® IPT), used in conjunction with participating web sites, provides double identity authentication by adding a hardware component in addition to the usual user name and password. Intel® Identity Protection Technology (Intel® IPT) is initialized through an HP Client Security module.
- ³⁶ Fingerprint reader: standard on 800 G4 AIO touch models and optional on non-touch models.
- ³⁷ HP Drive Lock is not supported on NVMe drives.
- ³⁸ HD-DVD disks cannot be played on this drive. No support for DVD-RAM. Actual speeds may vary. Don't copy copyright-protected materials. Double Layer discs can store more data than single layer discs. Discs burned with this drive may not be compatible with many existing single-layer DVD drives and players.



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4AA7-ZB54EEAP, June 2019

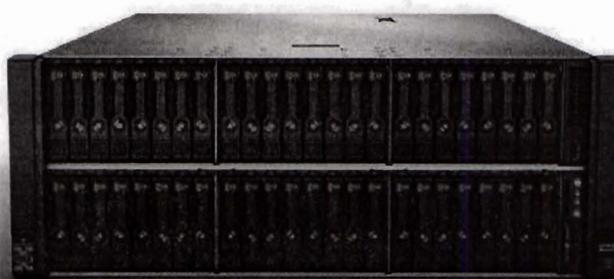




**Hewlett Packard
Enterprise**

HPE ProLiant DL580 Gen10 Server

ProLiant DL Servers



What's new

- Intel Xeon Scalable processors supporting up to four processors with a maximum core count from 4 to 112.
- Delivers up to 4.8x more disk drives and up to 4x more NVMe drives compared to the HPE ProLiant DL580 Gen9 server.
- Up to 6 TB of 2666 MT/s HPE DDR4 SmartMemory modules for increased performance for data-intensive application workloads.

Overview

Looking for a highly scalable, workhorse server to address your database, storage, and graphics intensive applications? The HPE ProLiant DL580 Gen10 Server is a secure, highly expandable, 4P server with high-performance, scalability and availability in a 4U chassis. Supporting the Intel® Xeon® Scalable processors with up to a 28% [1] performance gain, the HPE ProLiant DL580 Gen10 server delivers greater processing power than previous generations, up to 6 TB of 2666 MT/s memory with up to 66% greater memory bandwidth [2], up to sixteen PCIe 3.0 slots, plus the simplicity of automated management with HPE OneView and HPE iLO 5. The HPE ProLiant DL580 Gen10 Server is the ideal

- Massive expandability with up to 16 PCIe slots compared to nine in previous generations plus an additional HPE FlexibleLOM.
- Support up to four full length/full height graphic processing units (GPUs).
- Hewlett Packard Enterprise innovation with Intelligent System Tuning.

server for business-critical workloads and general 4P data-intensive applications where the right performance is paramount.

Features

Scalable Performance In An Expandable 4U Form Factor

The completely redesigned HPE ProLiant DL580 Gen10 Server provides 4P computing in an expandable 4U form factor and supports up to four Intel Xeon Platinum and Gold processors which provide up to 28% [1] more processor performance and 17% [3] more cores than the previous generation.

Up to 48 DIMM slots which support up to 6 TB for 2666 MT/s HPE DDR4 SmartMemory. HPE DDR4 SmartMemory improves workload performance and power efficiency while reducing data loss and downtime with enhanced error handling.

Choice of HPE FlexibleLOM Adapters offers a range of networking speeds (1GbE to 25GbE) and fabrics so you can adapt and grow to changing business needs.

Hewlett Packard Enterprise innovation with Intelligent System Tuning enhances workload performance using customized profiles to tune internal resources and improves throughput for all workloads including latency-sensitive workloads such as high frequency trading with jitter smoothing.

Remarkable Expandability and Availability For Multiple Workloads

The HPE ProLiant DL580 Gen10 server has a flexible processor tray allowing it to scale up from one to four processors as needed, saving on upfront costs and the flexible drive cage design supporting up to 48 Small Form Factor (SFF) SAS/SATA drives and a maximum of 20 NVMe drives.

Supports up to 16 PCIe 3.0 expansion slots including up to four full length/full height graphics processing units (GPUs), as well as networking cards or storage controllers offering increased expandability.

Up to four, 96% efficient HPE 800W or 1600W[4] Flex Slot Power Supplies which enable higher power redundancy with 2+2 configurations and flexible voltage ranges.

Secure and Reliable

HPE offers industry standard servers with HPE designed custom BMC (HPE iLO5) silicon chip that is physically altered to anchor most server essential firmware including HPE iLO, UEFI, IE, ME, and SPLD. This anchor into the HPE silicon chip creates a true Silicon Root of Trust that protects.

Millions of lines of firmware code run before server operating system boots and with Runtime Firmware Validation, enabled by HPE iLO Advanced Premium Security Edition, the server firmware is checked every 24 hours verifying validity and credibility of essential system firmware.

Secure Recovery allows server firmware to roll back to the last known good state or factory settings after detection of compromised code.

Additional security options are available with, Trusted Platform Module (TPM), to prevent unauthorized access to the server and securely stores artifacts used to authenticate the server platforms while the Intrusion Detection Kit logs and alerts when the server hood is removed.



Agile Infrastructure Management for Accelerating IT Service Delivery

The HPE ProLiant DL580 Gen10 Server combined with the HPE OneView software provides infrastructure management for automation simplicity across servers, storage and networking.

A suite of embedded and downloadable tools is available for server lifecycle management including Unified Extensible Firmware Interface (UEFI), Intelligent Provisioning; HPE iLO 5 to monitor and manage; HPE iLO Amplifier Pack, Smart Update Manager (SUM), and Service Pack for ProLiant (SPP).

HPE Pointnext Services simplifies all stages of the IT journey. Advisory and Transformation Services professionals understand customer challenges and design an better solution. Professional Services enables rapid deployment of solutions and Operational Services provides ongoing support.

HPE IT investment solutions help you transform to a digital business with IT economics that align to your business goals.



Technical specifications

HPE ProLiant DL580 Gen10 Server

Processor	Intel® Xeon® Scalable processors
Processor core available	28 or 26 or 24 or 22 or 20 or 18 or 16 or 14 or 12 or 10 or 8 or 6 or 4, per processor, depending on model
Processor cache	13.75 MB L3 or 16.50 MB L3 or 19.25 MB L3 or 22.00 MB L3 or 24.75 MB L3 or 27.50 MB L3 or 30.25 MB L3 or 33.00 MB L3 or 35.75 MB L3 or 38.50 MB L3, per processor, depending on model
Processor speed	3.6 GHz, maximum depending on processor
Power supply type	4 HPE Flexible Slot Power Supplies, maximum depending on model
Expansion slots	16 maximum, for detailed descriptions reference the QuickSpecs
Maximum memory	6.0 TB maximum
Memory slots	48 DIMM slots maximum
Memory type	HPE DDR4 SmartMemory
Included hard drives	none included
System fan features	12 (11+1) Hot plug redundant standard
Network controller	Optional FlexibleLOM
Storage controller	HPE Smart Array S100i or HPE Smart Array Controllers, depending on model
Minimum dimensions (W x D x H)	17.48 x 44.55 x 75.18 cm
Weight	51.71 kg
Infrastructure management	HPE iLO Standard with Intelligent Provisioning (embedded) and HPE OneView Standard (requires download) are included Optional: HPE iLO Advanced, HPE iLO Advanced Premium Security Edition and HPE OneView Advanced (optional require licenses)
Warranty	3/3/3 - Server Warranty includes three years of parts, three years of labor, three years of onsite support coverage. Additional information regarding worldwide limited warranty and technical support is available at: http://h20564.www2.hp.com/hpsc/wc/public/home . Additional HPE support and service coverage for your product can be purchased locally. For information on availability of service upgrades and the cost for these service upgrades, refer to the HPE website at http://www.hp.com/support



Additional resources

QuickSpecs

[hpe.com/h20195/v2/GetDocument.aspx?](http://hpe.com/h20195/v2/GetDocument.aspx?docname=a00021850enus)

[docname=a00021850enus](#)

HPE Pointnext

HPE Pointnext leverages our breadth and depth of technical expertise and innovation to help to accelerate digital transformation. A comprehensive portfolio that includes—Advisory, Professional, and Operational Services is designed to help evolve and grow today and into the future.

Operational Services

- **HPE Datacenter Care** offers a tailored operational support solution built on core deliverables. It includes hardware and software support, a team of experts to help personalize deliverables and share best practices, as well as optional building blocks to address specific IT and business needs.
- **HPE Flexible Capacity** is a new consumption model to manage on-demand capacity, combining the agility and economics of public cloud with the security and performance of on-premises IT.
- **HPE Foundation Care** helps when there is a hardware or software problem offering several response levels dependent on IT and business requirements.
- **HPE Proactive Care** is an integrated set of hardware and software support including an enhanced call experience with start to finish case management helping resolve incidents quickly and keeping IT reliable and stable.

Advisory Services includes design, strategy, road map, and other services to help enable the digital transformation journey, tuned to IT and business needs. Advisory Services helps customers on their journey to Hybrid IT, Big Data, and the Intelligent Edge.

Professional Services helps integrate the new solution with project management, installation and startup, relocation services, and more. We help mitigate risk to the business so there is no interruption when new technology is being integrated in the existing IT environment.

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[1] Intel measurements. Up to 28% performance increase of Intel Xeon Platinum versus previous generation E7-8800 v4 average performance based on generational gains on HPE servers comparing 4-socket Intel Xeon Platinum 8180 to E7-8890 v4 family processors. Any difference in system hardware or software design or configuration may affect actual performance. May 2017.

[2] Percentage compares Gen10 vs Gen9. Gen10 = 12 Channels x 2666 data rate x 8 bytes = 256 GB/sec. Gen9 = 8 channels x 2400 x 8 bytes = 154 GB/sec. 256/154 = 1.66 or Gen10 is 66% greater bandwidth. July 2017.

[3] Up to 17% performance increase of Intel Xeon Platinum versus previous generation comparing 4-socket Intel Xeon Platinum 8180 (28 cores) to E7-8890 v4 (24 cores). Calculation 28 cores/24 cores= 1.167 = 17%. August 2017.

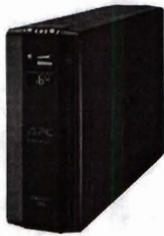
[4] 1600W Power supplies only support high line voltage (200V AC to 240V AC)



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Image may differ from actual product
PSN1010192779USEN, October 12, 2017.



BX1500M

Respaldo por baterías premium con protección contra sobretensiones para computadoras y dispositivos electrónicos de alto rendimiento

Incluye: Cable USB, Manual del usuario

Especificaciones técnicas

Salida

Capacidad de potencia de salida	900Vatios / 1.5kVA
Máxima potencia configurable (vatios)	900Vatios / 1.5kVA
Tensión de salida nominal	120V
Frecuencia de salida (sincronizada con la red)	60 Hz
Topología	Línea interactiva
Tipo de forma de onda	Aproximación acompasada de una onda sinusoidal
Conexiones de salida	(5) NEMA 5-15R (Protección contra sobretensiones) (5) NEMA 5-15R (Respaldo de batería)
Duración de transferencia	8ms typical : 10 ms maximum

Entrada

Entrada de voltaje	120V
Frecuencia de entrada	60 Hz +/- 3 Hz
Tipo de enchufe	NEMA 5-15P
Longitud del cable	1.83metros
Variación de tensión de entrada para operaciones principales	88 - 139V
Corriente máxima de entrada	12.0A

Baterías y autonomía

Tipo de batería:	Batería sellada de plomo sin necesidad de mantención con electrolito suspendido: a prueba de filtración
Tiempo de recarga típico	16hora(s)
Batería de recambio	APCRBC124
Cantidad de cartuchos de batería de recambio	1
Capacidad VA/hora de la Batería	172
Autonomía	Ver Gráfico de autonomía



	Ver Cuadro de autonomía
Rendimiento	Ver Gráfico de eficiencia

Comunicaciones y manejo

Interface Port(s)	USB
Panel de control	Estatus multifuncional LCD y consola con control
Alarma audible	Alarma de batería encendida: alarma distintiva de carga de batería baja: alarma de sobrecarga de tono continuo

Proteção contra surtos e filtragem

Régimen nominal de sobretensiones	789Joules
Protección para líneas de datos	Línea de red – 10/100/1000 Base T Ethernet (conector RJ-45), Cable coaxial para CATV/SATV/módem/Audio-Video (con conector coaxial)
Filtrado	Full time multi-pole noise filtering : 5% IEEE surge let-through : zero clamping response time : meets UL 1449

Físico

Dimensiones de altura máxima	250mm, 25.0cm
Dimensiones de anchura máxima	100mm, 10.0cm
Dimensiones de profundidad máxima	382mm, 38.2cm
Peso neto	11.0kg
Peso de embarque	12.7kg
Altura del bulto	348mm, 34.8cm
Ancho del bulto	227mm, 22.7cm
Profundidad del bulto	491mm, 49.1cm
Unidades por tarima	32.0
Códigos SCC	1073130433178 7

Ambiental

Temperatura de operación	0 - 40 °C
Humedad relativa de operación	0 - 95 %
Elevación de operación	0-3000metros
Temperatura de almacenamiento	-15 - 40 °C
Humedad relativa de almacenamiento	0 - 95 %
Elevación de almacenamiento	0-15000metros
Ruido audible a 1 metro de la superficie de la unidad	45.0dBA
Disipación térmica online	67.6BTU/hora

Conformidad

Aprobaciones	Cargador de baterías para California (CEC), ENERGY STAR V2.0 (USA), FCC Part 15 Clase B, Certificación TUV C-US
Política de protección del equipo	De por vida: USD 250000
Garantía estándar	Reparación o reemplazo por 3 años



Sustainable Offer Status

RoHS	Cumplimiento
Directiva REACH	Norma REACH: Contiene sustancias altamente preocupantes (SVHC)
Proposition 65 Warning	Disponible en la ficha Documentación

