

DS-7100HQHI-K1 SERIES TURBO HD DVR

Key Feature

- H.265 Pro+/H.265 Pro/H.265 video compression
- HDTVI/AHD/CVI/TVBS/IP video input
- Audio via coaxial cable
- Up to 6/12/24-ch IP camera inputs (up to 6 MP)
- Max. 800 m for 1080p and 1200 m for 720p HDTVI signal
- Up to 6 TB capacity per HDD



Compression and Recording

- H.265 Pro+ can improve encoding efficiency and reduce the data storage cost
- Full channel recording at up to 4 MP lite resolution

Storage and Playback

- Smart search for efficient playback
- Support the 3rd party cloud storage

Network & Ethernet Access

- Hik-Connect & DDNS (Dynamic Domain Name System) for easy network management
- Max. 24/48/96 Mbps incoming bandwidth and output bandwidth limit configurable

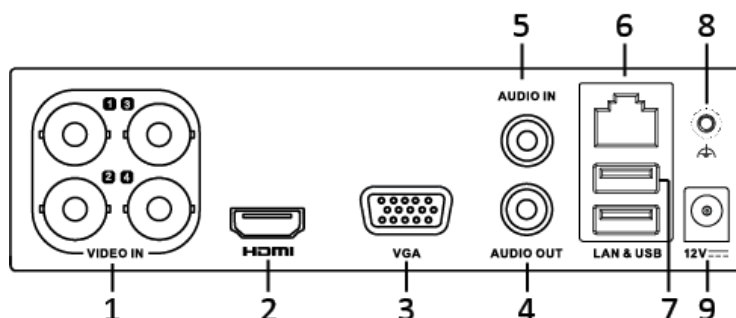


Specification

Model	DS-7104HQHI-K1		DS-7108HQHI-K1	DS-7116HQHI-K1
Recording				
Video compression	H.265 Pro+/H.265 Pro/H.265/H.264+/H.264			
Encoding resolution	When 1080p Lite mode is not enabled: 4 MP lite/3 MP/1080p/720p/VGA/WD1/4CIF/CIF; When 1080p Lite mode is enabled: 4 MP lite/3 MP/1080p lite/720p lite/VGA/WD1/4CIF/CIF			
Frame rate	Main stream: When 1080p Lite mode is not enabled: For 4 MP stream access: 4 MP lite@15fps; 1080p lite/720p/WD1/4CIF/VGA/CIF@25fps (P)/30fps (N) For 3 MP stream access: 3 MP/1080p/720p/VGA/WD1/4CIF/CIF@15fps For 1080p stream access: 1080p/720p@15fps; VGA/WD1/4CIF/CIF@25fps (P)/30fps (N) For 720p stream access: 720p/VGA/WD1/4CIF/CIF@25fps (P)/30fps (N) When 1080p Lite mode is enabled: 4 MP lite/3 MP@15fps; 1080p lite/720p lite/VGA/WD1/4CIF/CIF@25fps (P)/30fps (N) Sub-stream: WD1/4CIF@12fps; CIF@25fps (P)/30fps (N)			
Video bit rate	32 Kbps to 6 Mbps			
Dual stream	Support			
Stream type	Video, Video & Audio			
Audio compression	G.711u			
Audio bit rate	64 Kbps			
Video and Audio				
IP video input	1-ch (up to 5-ch)	2-ch (up to 10-ch)	2-ch (up to 18-ch)	
	Enhanced IP mode on: 2-ch (up to 6-ch), each up to 4 Mbps	Enhanced IP mode on: 4-ch (up to 12-ch), each up to 4 Mbps	Enhanced IP mode on: 8-ch (up to 24-ch), each up to 4 Mbps	
	Up to 6 MP resolution			
	Support H.265+/H.265/H.264+/H.264 IP cameras			
Analog video input	4-ch	8-ch	16-ch	
	BNC interface (1.0 Vp-p, 75 Ω), supporting coaxitron connection			
HDTVI input	4 MP, 3 MP, 1080p25, 1080p30, 720p25, 720p30, 720p50, 720p60 *: The 3 MP signal input is only available for channel 1 of DS-7104HQHI-K1, channel 1/2 of DS-7108HQHI-K1, and channel 1/2/3/4 of DS-7116HQHI-K1.			
AHD input	4 MP, 1080p25, 1080p30, 720p25, 720p30			
HDCVI input	4 MP, 1080p25, 1080p30, 720p25, 720p30			
CVBS input	Support			
VGA output	1-ch, 1920 × 1080/60Hz, 1280 × 1024/60Hz, 1280 × 720/60Hz, 1024 × 768/60Hz			
HDMI output	1-ch, 1920 × 1080/60Hz, 1280 × 1024/60Hz, 1280 × 720/60Hz, 1024 × 768/60Hz		1-ch, 4K (3840 × 2160)/30Hz, 2K (2560 × 1440)/60Hz, 1920 × 1080/60Hz	

		1080/60Hz, 1280 ×	
		1024/60Hz, 1280 ×	
		720/60Hz, 1024 ×	
		768/60Hz	
Audio input	1-ch, RCA (2.0 Vp-p, 1 KΩ)		
	4-ch via coaxial cable	8-ch via coaxial cable	16-ch via coaxial cable
Audio output	1-ch, RCA (Linear, 1 KΩ)		
Two-way audio	1-ch, RCA (2.0 Vp-p, 1 KΩ) (using the first audio input)		
Synchronous playback	4-ch	8-ch	16-ch
Network			
Total bandwidth	72 Mbps	96 Mbps	128 Mbps
Incoming bandwidth (Enhanced IP mode)	24 Mbps	48 Mbps	96 Mbps
Remote connection	32	64	128
Network protocol	TCP/IP, PPPoE, DHCP, Hik-Connect, DNS, DDNS, NTP, SADP, NFS, iSCSI, UPnP™, HTTPS, ONVIF		
Network interface	1, RJ45 10M/100M self-adaptive Ethernet interface		1, RJ45 10M/100M/1000M self-adaptive Ethernet interface
Auxiliary interface			
SATA	1 SATA interface		
Capacity	Up to 6 TB capacity for each disk		
USB interface	Real panel: 2 × USB 2.0		
Alarm in/out	N/A		
General			
Power supply	12 VDC, 1.5 A	12 VDC, 1.33 A	12 VDC, 1.9 A
Consumption (without HDD)	≤ 8 W	≤ 12 W	≤ 15 W
Working temperature	-10 °C to +55 °C (+14 °F to +131 °F)		
Working humidity	10% to 90%		
Dimension (W × D × H)	200 × 200 × 45 mm (7.9 × 7.9 × 1.8 inch)		285 × 210 × 45 mm (11.2 × 8.3 × 1.8 inch)
Weight (without HDD)	≤ 1 kg (2.2 lb)		

Physical Interface



The rear panel of DS-7108/7116HQHI-K1 provides 8/16 video input interfaces.

Index	Description	Index	Description
1	Video and Coaxial Audio In	6	LAN Network Interface
2	HDMI Interface	7	USB Interfaces
3	VGA Interface	8	GND
4	AUDIO OUT, RCA Connector	9	12 VDC Power Input
5	AUDIO IN, RCA Connector		

Available Model

DS-7104HQHI-K1, DS-7108HQHI-K1, DS-7116HQHI-K1

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CCTV Analógico / HD 4n1 / Cameras

SF-T941A-5P4N1

High Resolution 4N1 Camera with Audio

High Resolution PRO Series | Audio Solution

The higher resolution of 5Mpx provides a significant improvement in the level of detail when identifying the events collected in the recordings. Good sharpness and definition during the day and high performance at night, highlighting its sensitivity of 0.01Lux and its Smart Matrix IR LEDs with improved coverage and automatic adjustment. Integrated microphone that transmits audio over the coaxial cable itself.

- 5 Megapíxel Resolution
- High Performance CMOS Sensor
- 3.6 mm Fixed Lens
- Smart IR Up to 30 m
- Built-in Mic Audio over Coaxial
- Digital WDR | 2D DNR
- IP67 Weatherproof



Technical Specification

Image Sensor	5 MP CMOS
Max. Resolution	2560 (H) × 1944 (V)
Min. Illumination	0.01 Lux@(F1.2, AGC ON), 0 Lux with IR
Shutter Time	PAL: 1/25 s to 1/50, 000 s NTSC: 1/30 s to 1/50, 000 s
Day & Night	ICR
Angle Adjustment	Pan: 0 to 360°, Tilt: 0 to 75°, Rotation 0 to 360°
Signal System	PAL/NTSC
Lens Type	3.6 mm fixed lens
Focal Length & FOV	3.6 mm, horizontal FOV: 80.1°, vertical FOV: 63.7°, diagonal FOV: 105.9°
Lens Mount	M12
Image Parameters Switch	STD/HIGH-SAT
Image Settings	Brightness, Sharpness, Mirror, Smart IR
Frame Rate	TVI: 5MP@20fps, 4MP@30fps, 4MP@25fps, 1080P@30fps, 1080P@25fps CVI: 4MP@30fps, 4MP@25fps AHD: 5MP@20fps, 4MP@30fps, 4MP@25fps CVBS: PAL/NTSC
Day/Night Mode	Auto/Color/BW (Black and White)
Wide Dynamic Range (WDR)	Digital WDR
White Balance	ATW/MANUAL
AGC	Support
Video Output	Switchable TVI/AHD/CVI/CVBS
Material	Metal
Dimension	82.6 mm × 90 mm × 79.37 mm (3.25" × 3.54" × 3.12") Approx. 289.5 g (0.64 lb.)
Operating Condition	-40° C to 60° C (-40° F to 140° F), Humidity 90% or less (no condensation)
Communication	Safire-C
Language	English
Power Supply	12 VDC ± 25% *You are recommended to use one power adapter to supply the power for one camera.
Consumption	Max. 3.7 W
IR Range	Up to 30 m
Protection	IP67



WD Purple™

Surveillance Hard Drives

WD Purple™ drives are built for 24/7, always-on, high-definition security systems. With a supported workload rate* of up to 180 TB/yr and support for up to 64 cameras, WD Purple™ drives are optimized for surveillance systems. WD Purple™ surveillance storage also comes with WD's exclusive AllFrame 4K™ technology, so you can confidently create a security system tailored to the needs of your business. Using AllFrame 4K™ technology, WD Purple™ drives improve ATA streaming to help reduce errors, pixelation, and video interruptions that could happen in a video recorder system.



INTERFACE

SATA 6 Gb/s

FORM FACTOR

3.5-inch

PERFORMANCE CLASS

5400 RPM Class

CAPACITIES

500GB to 10TB

MODEL NUMBERS

WD100PURZ	WD30PURX
WD80PUZX	WD20PURX
WD60PURX	WD10PURX
WD50PURX	WD05PURX
WD40PURX	

Product Features

The right drive for the right job

WD Purple™ drives have been engineered specifically for surveillance, so they're able to withstand the extreme heat fluctuations and equipment vibrations within a NVR environment. An average desktop drive is built to run for only short intervals, not the harsh 24/7 always-on environment of a high-definition surveillance system. A disruption to a drive could result in a failure that impacts multiple users, your security archive, or even the entire system. With WD Purple™, you get reliable, surveillance-class storage that's tested for compatibility in a wide-range of security systems.

Industry-leading storage. Surveillance you can trust.

WD is a worldwide leader in the hard drive industry. With WD Purple™ surveillance storage, you have a drive engineered for high temperature, always-on surveillance systems so you can rely on quality video playback when you need it most. Whether you're protecting loved ones or monitoring your business, WD Purple™ offers performance you can trust.

Wide compatibility. Seamless integration.

WD Purple™ hard drives are built with compatibility in mind, so you can quickly and seamlessly add capacity to your surveillance system. With a wide range of industry-leading enclosures and chipsets supported, you're sure to find the DVR configuration that's right for you.**

**Not sure what drive is best for your system? Use our compatibility tool to find the perfect storage for your DVR or NVR.

Expand your view to 64

Each WD Purple™ drive is optimized to support up to 64 cameras. With so many options, you have the flexibility to upgrade or expand your security system in the future

Trust your view with AllFrame 4K™

Missed frames and lost footage could be a serious problem when video surveillance needs to be retrieved. All WD Purple™ drives are equipped with AllFrame 4K™ technology, which improves ATA streaming to help reduce frame loss, improve overall

video playback, and increase the number of hard drive bays supported within a NVR.

Features:

- Engineered specifically for surveillance security systems.
- Three times the workload rating of our desktop hard drives*.
- Tuned for write-intensive, low bit-rate, high stream-count applications typical to most surveillance applications.
- Prioritized write-operations for maximized surveillance performance.
- TLER & ATA streaming support.
- Support for more than eight bays.***

*Workload Rate is defined as the amount of user data transferred to or from the hard drive. Workload Rate is annualized (TB transferred X(8760 / recorded power-on hours)). Workload Rate will vary depending on your hardware and software components and configurations.

***For capacities 4TB and higher.

Less power. More efficient.

Low power consumption is a necessity in a high-temperature, always-on surveillance environment. With our exclusive IntelliSeek™ technology, WD Purple™ drives are able to calculate optimum seek speeds. This keeps power consumption low so ambient noise and vibrations are at a minimum.

Three year limited-warranty

As an industry-leading hard drive manufacturer, WD stands behind their surveillance storage solutions. With a 3-year limited warranty included with every WD Purple™ drive, you can rely on your surveillance system's data storage capabilities.

The WD Advantage

At WD, we put our products through extensive Functional Integrity Testing (F.I.T.™) prior to any product launch. This testing ensures our products consistently meet the high quality and reliability standards of the WD brand. WD also has a detailed Knowledge Base with more than 1,000 helpful articles as well as helpful software and utilities. Our customer support lines have long operational hours to ensure you get the help you need when you need it. Our toll-free customer support lines are here to help or you can access our WD Support site for additional details.



Specifications	10TB	8TB	6TB	5TB	4TB	3TB	2TB
Model number ¹	WD100PURZ	WD80PUZX	WD60PURX	WD50PURX	WD40PURX	WD30PURX	WD20PURX
Formatted capacity ²	10TB	8TB	6TB	5TB	4TB	3TB	2TB
Form factor	3.5-inch	3.5-inch	3.5-inch	3.5-inch	3.5-inch	3.5-inch	3.5-inch
Advanced Format (AF)	Yes	Yes	Yes	Yes	Yes	Yes	Yes
RoHS compliant ³	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Performance							
Interface transfer rate (max) ² Buffer to host Host to/from drive (sustained)	6 Gb/s 210 MB/s	6 Gb/s 178 MB/s	6 Gb/s 175 MB/s	6 Gb/s 170 MB/s	6 Gb/s 150 MB/s	6 Gb/s 145 MB/s	6 Gb/s 145 MB/s
Cache (MB) ²	256	128	64	64	64	64	64
Performance Class	5400 RPM Class	5400 RPM Class	5400 RPM Class	5400 RPM Class	5400 RPM Class	5400 RPM Class	5400 RPM Class
Reliability/Data Integrity							
Load/unload cycles ⁴	300,000	300,000	300,000	300,000	300,000	300,000	300,000
Non-recoverable read errors per bits read	<1 in 10 ¹⁴	<1 in 10 ¹⁴	<1 in 10 ¹⁴	<1 in 10 ¹⁴	<1 in 10 ¹⁴	<1 in 10 ¹⁴	<1 in 10 ¹⁴
Limited warranty (years) ⁵	3	3	3	3	3	3	3
Power Management							
Average power requirements (W) Read/Write Idle Standby and Sleep	6.2 5.0 0.5	6.4 5.7 0.7	5.3 4.9 0.4	5.3 4.9 0.4	5.1 4.5 0.4	4.4 4.1 0.4	4.4 4.1 0.4
Environmental Specifications⁶							
Temperature (°C, on the base casting) Operating Non-operating	0 to 65 -40 to 70	0 to 65 -40 to 70	0 to 65 -40 to 70	0 to 65 -40 to 70	0 to 65 -40 to 70	0 to 65 -40 to 70	0 to 65 -40 to 70
Shock (Gs) Operating (2 ms, read/write) Operating (2 ms, read) Non-operating (2 ms)	30 65 250	30 65 250	30 65 250	30 65 250	30 65 250	30 65 250	30 65 250
Acoustics (dBA) ⁷ Idle Seek (average)	20 29	20 29	25 26	25 26	25 26	23 24	23 24
Physical Dimensions							
Height (in./mm, max)	1.028/26.1	1.028/26.1	1.028/26.1	1.028/26.1	1.028/26.1	1.028/26.1	1.028/26.1
Length (in./mm, max)	5.787/147	5.787/147	5.787/147	5.787/147	5.787/147	5.787/147	5.787/147
Width (in./mm, ± .01 in.)	4/101.6	4/101.6	4/101.6	4/101.6	4/101.6	4/101.6	4/101.6
Weight (lb/kg, ± 10%)	1.43/0.65	1.43/0.65	1.65/0.75	1.65/0.75	1.50/0.68	1.40/0.64	1.40/0.64

¹ Not all products may be available in all regions of the world.

² As used for storage capacity, one megabyte (MB) = one million bytes, one gigabyte (GB) = one billion bytes, and one terabyte (TB) = one trillion bytes. Total accessible capacity varies depending on operating environment. As used for buffer or cache, one megabyte (MB) = 1,048,576 bytes. As used for transfer rate or interface, megabyte per second (MB/s) = one million bytes per second, and gigabit per second (Gb/s) = one billion bits per second. Effective maximum SATA 6 Gb/s transfer rate calculated according to the Serial ATA specification published by the SATA-IO organization as of the date of this specification sheet. Visit www.sata-io.org for details.

³ WD hard drive products manufactured and sold worldwide after June 8, 2011, meet or exceed Restriction of Hazardous Substances (RoHS) compliance requirements as mandated by the RoHS Directive 2011/65/EU.

⁴ Controlled unload at ambient condition.

⁵ See <http://support.wd.com/warranty> for regional specific warranty details.

⁶ No non-recoverable errors during operating tests or after non-operating tests.

⁷ Sound power level.



WD Purple™

Specifications	1TB	500GB
Model number ¹	WD10PURX	WD05PURX
Formatted capacity ²	1TB	500GB
Form factor	3.5-inch	3.5-inch
Advanced Format (AF)	Yes	Yes
RoHS compliant ³	Yes	Yes
Performance		
Interface transfer rate (max) ²		
Buffer to host	6 Gb/s	6 Gb/s
Host to/from drive (sustained)	110 MB/s	110 MB/s
Cache (MB) ²	64	64
Performance Class	5400 RPM Class	5400 RPM Class
Reliability/Data Integrity		
Load/unload cycles ⁴	300,000	300,000
Non-recoverable read errors per bits read	<1 in 10 ¹⁴	<1 in 10 ¹⁴
Limited warranty (years) ⁵	3	3
Power Management		
Average power requirements (W)		
Read/Write	3.3	3.3
Idle	2.9	2.9
Standby and Sleep	0.4	0.4
Environmental Specifications⁶		
Temperature (°C, on the base casting)		
Operating	0 to 65	0 to 65
Non-operating	-40 to 70	-40 to 70
Shock (Gs)		
Operating (2 ms, read/write)	30	30
Operating (2 ms, read)	65	65
Non-operating (2 ms)	350	350
Acoustics (dBA) ⁷		
Idle	21	21
Seek (average)	22	22
Physical Dimensions		
Height (in./mm, max)	1.028/26.1	1.028/26.1
Length (in./mm, max)	5.787/147	5.787/147
Width (in./mm, ± .01 in.)	4/101.6	4/101.6
Weight (lb/kg, ± 10%)	0.99/0.45	0.99/0.45

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² As used for storage capacity, one megabyte (MB) = one million bytes, one gigabyte (GB) = one billion bytes, and one terabyte (TB) = one trillion bytes. Total accessible capacity varies depending on operating environment. As used for buffer or cache, one megabyte (MB) = 1,048,576 bytes. As used for transfer rate or interface, megabyte per second (MB/s) = one million bytes per second, and gigabit per second (Gb/s) = one billion bits per second. Effective maximum SATA 6 Gb/s transfer rate calculated according to the Serial ATA specification published by the SATA-IO organization as of the date of this specification sheet. Visit www.sata-io.org for details.

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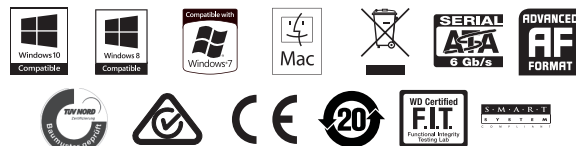
⁷ Sound power level.

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CAN ICES-3 (B) / NMB-3 (B)

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POE Power Supply Adapter

Model	CP1220-1A
AC input	AC110-240V 50/60Hz
DC output	DC12V 1A
Size	85*45*30mm



POE Power Supply Adapter

Model	CP1221-1A
AC input	AC110-240V 50/60Hz
DC output	DC12V 1A
Size	85*44*30mm



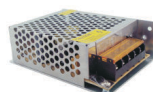
Switching Power Supply

Model	CP1207-1A
AC input	AC110-240V 50/60Hz
DC output	DC12V 1A
Size	70*40*30mm



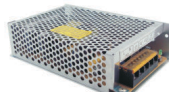
Switching Power Supply

Model	CP1207-2A
AC input	AC110-240V 50/60Hz
DC output	DC12V 2A
Size	85*58*32mm



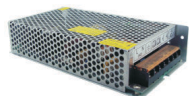
Switching Power Supply

Model	CP1207-3A
AC input	AC110-240V 50/60Hz
DC output	DC12V 3A
Size	110*78*36mm



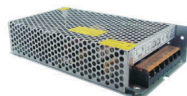
Switching Power Supply

Model	CP1207-5A
AC input	AC110-240V 50/60Hz
DC output	DC12V 5A
Size	160*100*40mm



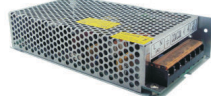
Switching Power Supply

Model	CP1207-10A
AC input	AC110-240V 50/60Hz
DC output	DC12V 10A
Size	200*100*40mm



Switching Power Supply

Model	CP1207-15A
AC input	AC110-240V 50/60Hz
DC output	DC12V 15A
Size	210*95*40mm



Switching Power Supply

Model	CP1207-20A
AC input	AC110-240V 50/60Hz
DC output	DC12V 20A
Size	215*105*45mm



Switching Power Supply

Model	CP1208-30A
AC input	AC110-240V 50/60Hz
DC output	DC12V 30A
Size	210*95*40mm



Switching Power Supply

Model	CP1208-40A
AC input	AC110-240V 50/60Hz
DC output	DC12V 40A
Size	210*95*40mm



Rainproof Power Supply

Model	CP1211-5A
AC input	AC110-240V 50/60Hz
DC output	DC12V 5A
Size	105*180*48mm



Rainproof Power Supply

Model	CP1211-10A
AC input	AC110-240V 50/60Hz
DC output	DC12V 10A
Size	220*105*50mm



Rainproof Power Supply

Model	CP1211-15A
AC input	AC110-240V 50/60Hz
DC output	DC12V 15A
Size	225*105*50mm



Rainproof Power Supply

Model	CP1211-20A
AC input	AC110-240V 50/60Hz
DC output	DC12V 20A
Size	205*120*55mm



Rainproof Power Supply

Model	CP1211-30A
AC input	AC110-240V 50/60Hz
DC output	DC12V 30A
Size	245*145*65mm



5chs Centralized Power Supply

Model	CP1209-3A-4
AC input	AC110-240V 50/60Hz
DC output	DC12V 5A
Size	165*165*50mm



5chs Centralized Power Supply

Model	CP1209-5A-4
AC input	AC110-240V 50/60Hz
DC output	DC12V 5A
Size	165*165*50mm



9chs Centralized Power Supply

Model	CP1209-5A-9
AC input	AC110-240V 50/60Hz
DC output	DC12V 5A
Size	240*210*55mm



9chs Centralized Power Supply

Model	CP1209-10A-9
AC input	AC110-240V 50/60Hz
DC output	DC12V 10A
Size	240*210*55mm



18chs centralized Power Supply

Model	CP1209-10A-18
AC input	AC110-240V 50/60Hz
DC output	DC12V 10A
Size	320*215*65mm



18chs centralized Power Supply

Model	CP1209-15A-18
AC input	AC110-240V 50/60Hz
DC output	DC12V 15A
Size	320*215*65mm



18chs centralized Power Supply

Model	CP1209-20A-18
AC input	AC110-240V 50/60Hz
DC output	DC12V 20A
Size	320*215*65mm



18chs centralized Power Supply

Model	CP1209-30A-18
AC input	AC110-240V 50/60Hz
DC output	DC12V 30A
Size	320*215*65mm