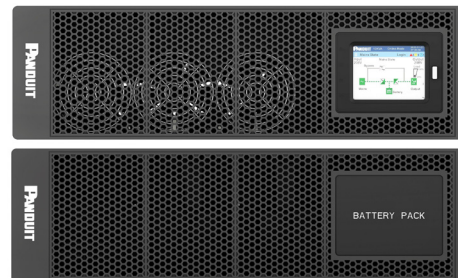


## overview

The Panduit® SmartZone™ UPS with maintenance free VRLA battery, 5-10kVA single phase 208 V and 230 V units is a pure Online Double Conversion system that delivers highly efficient and reliable power protection and power backup for your computer IT equipment. With excellent electrical performance, enhanced intelligent monitoring and network functions, complying with ENERGY STAR® 2.0, EMC and safety standards to meet the continually growing power demands of Data Center, Enterprise and Edge IT Infrastructure.



## key features and benefits

<b>Rack/Tower convertible</b>	Supports rack/tower installation with rotatable colorful touchscreen LCD panel
<b>Online Double Conversion with fully digital control (EMEA unit only)</b>	Provides stable and clean power with less ripple by filtering noise, automatic voltage regulation (AVR) and surge protection
<b>Wide input voltage range</b>	110-280Vac covering extended voltage range, applicable for severe situation such as large power grid fluctuation
<b>High efficiency</b>	Up to 98%, reducing the energy waste and the cost of electricity
<b>Energy savings</b>	High Efficiency on Smart ECO mode for Online Double Conversion models
<b>Green design</b>	RoHS and Reach, CE/UL/ENERGY STAR® 2.0 compliant for North America units
<b>Output unity power factor</b>	Means more active power for IT equipment load
<b>Input power factor</b>	Power factor correction topology on the input side dramatically reducing the total harmonic distortion (THD)
<b>Expandable battery packs</b>	Allows to connect maximum five external battery packs, extending the UPS backup running time
<b>Intelligent Battery Management</b>	Three-stage battery charging method matching the most optimal curve and temperature-compensated with advanced algorithms prolonging the battery life
<b>EPO function (Emergency Power Off)</b>	Allows to quickly and easily shut down the UPS when emergency event occurs
<b>Generator compatible</b>	Wide input frequency and voltage, supports connecting to generators, ensuring the uninterruptible operation
<b>Hot-Swappable battery design</b>	Can perform the replacement of battery cartridge without powering down the UPS
<b>Cold start function</b>	Allows to boot up the ups without mains input but with batteries
<b>Intelligent fan speed regulation</b>	Automatically adjustment of fan speed due to the ambient temperature and load percentage
<b>Multiple communication interface</b>	RS232/USB/intelligent slot, realizing communication and monitoring function
<b>Comprehensive protection function</b>	Short-circuit, overload, overheat, battery overcharge and over discharge, output low voltage, fan fault alarm and RJ45 surge protection
<b>Programmable outlet group with Smart Load Shedding</b>	Loads connected to the programmable group can lose power first, saving more energy and extending the runtime for critical load. Smart Load Shed allows logical group shutdown with time or load.
<b>Touch-Screen colorful LCD</b>	Colorful LCD with cold start button and LED indicators, providing intuitive display
<b>Intelligent Network Management Card (included with N Models*)</b>	Provides harden security remote access via Ethernet Secure SNMPv3 protocol to monitor and manage the UPS, micro-USB for firmware upgrade and RS-485 for connecting environmental and security sensors. Built-in WiFi and Bluetooth hardware support with future optional firmware upgrade.
<b>SmartZone™ Cloud Ready (included with N Models*)</b>	Support for technology allowing to easily, securely and quickly connect to SmartZone™ Cloud DCIM with management, monitoring, control and alerting of Power Chain, Environmental, Cooling, Security, Asset, and Connectivity Infrastructure Assets.
<b>SmartZone™ mPower Management Software</b>	Configure, monitor, and manage the UPS (includes graceful equipment shutdown) remotely via RS-232 or USB or Ethernet. Software is available for free download from <a href="http://www.panduit.com/smartzone-ups">www.panduit.com/smartzone-ups</a> .

\* N Model UPS has an N in the 4th digit of the part number, e.g. U05N11V

## product specifications

### • 6-10kVA 230 V VRLA

MODEL		U06S12V/U06N12V		U10S12V/U10N12V	
Output power capacity		6000 VA		10000 VA	
Max Configurable Power (Watts)		6000 W		10000 W	
Nominal output voltage		230 Vac (220 Vac, 240 Vac selectable)			
Output voltage distortion	Linear load	<3%			
	Non linear load	<5%			
Output frequency	Online mode	50 / 60 ± 4 Hz			
	Battery mode	50 / 60 ± 0.1 Hz			
Output power factor		1			
Load crest factor		3:1			
Topology		Double Conversion Online			
Waveform		Pure Sine Wave			
Overload capability	Online mode	105% - 125%: 5 min; 125% - 130%: 1 min; > 130%: 200 ms, transfer to bypass			
	Battery mode	105% - 125%: 1 min; 125% - 130%: 30 s; > 130%: 200 ms, shut down			
Transfer time (typical)	Online mode <-> Battery mode	0 ms			
	Inverter <-> Bypass	0 ms			
Efficiency	Online mode	94.0%		95.0%	
	ECO mode	97.5%		98.0%	
Output connection	Programmable	(2) IEC C19; (2) IEC C13			
	Non-programmable	HW terminal (L+N+G)			
Bypass		Internal			
INPUT					
Nominal input voltage		230 Vac (220 Vac, 240 Vac selectable)			
Input voltage range	Full load	176 - 264 Vac			
	Half load	110 - 285 Vac			
Input frequency range		40 - 70 Hz (auto sensing)			
Input connection		HW terminal (L+N+G)			
Input power factor		>0.99 (full load)			
BATTERY					
Battery type		VRLA			
Typical recharge time		4-6 hrs.			
Battery voltage		240 Vdc			
Battery quantity × capacity		20 × 12 V / 9 Ah			
Charging current (max.)		10 A			
Backup time	Full load	9.7 min.		4.5 min.	
	Half load	25.3 min.		12.9 min.	
Expected Battery Life (years)		3-5 yrs.			
EBP Replacement Cartridge		UVD240			
Additional External Battery Pack (EBP)		UVP240			
Maximum External Battery Pack (EBP) quantity		5 units			

## 6-10kVA 230 V VRLA (continued)

Communication ports	USB, RS232, intelligent slot	
Pre-Installed SmartZone™ iNMC Card	N model only	
Local Display/Control Panel	3.5 inch colorful touch screen	
Audible Alarm	Yes	
Emergency Power Off (EPO)	Yes	
ENVIRONMENTAL		
Operating temperature	32°F - 104°F (0°C - 40°C) (no derating)	
Storage temperature	-25°C - 55°C (without batteries)	
Relative humidity	0 - 95% (non-condensing)	
Operating elevation	Up to 3000 m (derated 10%)	
Online thermal dissipation	1306 BTU/hr.	1795 BTU/hr.
Protection Class	IP20	
Noise level	<55dB at 1 m	<58dB at 1 m
CONFORMANCE		
Safety	CB: IEC62040-1:2013, CE-LVD: EN62040-1:2008+A1:2013, UKCA: BS62040-1-2013	
EMC	IEC 62040-2-2016, EN 62040-2-2018, BS62040-2-2018	
Transportation	ISTA Procedure ISTA Procedure 2B	
Surge protection	IEEE/ANSI C62, 41 Category A, Level 3; 600Joules	
CUSTOMER SERVICE		
Warranty	3 years for UPS & EBP, 2 years for battery	
SUSTAINABLE OFFER STATUS		
RoHS	Compliant	
Proposition 65 Warning	See Safety Sheet (IM053)	
PHYSICAL		
Maximum Height	131mm UPS + 131mm Battery	
Maximum Width	440mm UPS + 440mm Battery	
Maximum Depth	666mm UPS + 666mm Battery	
Rack Height	6 RU	
Net Weight	101kg	103kg
Shipping Weight	116kg	118kg
Shipping Height	280mm UPS + 280mm Battery + 144mm Pallet	
Shipping Width	565mm (22.2 in.)	
Shipping Depth	865mm Pallet	
Color	Black	

**5-10kVA 208 V VRLA**

MODEL		U05S11V / U05N11V	U06S11V / U06N11V	U10S11V / U10N11V
Output power capacity		5000 VA	6000 VA	10000 VA
Max Configurable Power (Watts)		5000 W	6000 W	10000 W
Nominal output voltage		208 Vac (240 Vac selectable)		
Output voltage distortion	Linear load	<3%		
	Non linear load	<5%		
Output frequency	Online mode	50 / 60 ± 4 Hz		
	Battery mode	50 / 60 ± 0.1 Hz		
Output power factor		1		
Load crest factor		3:1		
Topology		Double Conversion Online		
Waveform		Pure Sine Wave		
Overload capability	Online mode	105% - 125%: 5 min; 125% - 130%: 1 min; > 130%: 200 ms, transfer to bypass		
	Battery mode	105% - 125%: 1 min; 125% - 130%: 30 s; > 130%: 200 ms, shut down		
Transfer time (typical)	Online mode <-> Battery mode	0 ms		
	Inverter <-> Bypass	0 ms		
Efficiency	Online mode	93.5%	94.0%	95.0%
	ECO mode	97.0%	97.5%	98.0%
Output connection	Programmable	(2)L6-30R		
	Non-programmable	(2) NEMA L6-30R	HW terminal (L1+L2+G)	
Bypass		Internal		
INPUT				
Nominal input voltage		208 Vac (240 Vac selectable)		
Input voltage range	Full load	185 - 264 Vac		
	Half load	110 - 285 Vac		
Input frequency range		40 - 70 Hz (auto sensing)		
Input connection		NEMA L6-30R	HW terminal (L1+L2+G)	
Input power factor		>0.99 (full load)		
BATTERY				
Battery type		VRLA		
Typical recharge time		4-6 hrs.		
Battery voltage		240 Vdc		
Battery quantity × capacity		20 × 12 V / 9 Ah		
Charging current (max.)		10 A		
Backup time	Full load	14.5 min.	9.7 min.	4.5 min.
	Half load	37.1 min.	25.3 min.	12.9 min.
Expected Battery Life (years)		3-5 yrs.		
EBP Replacement Cartridge		UVD240		
Additional External Battery Pack (EBP)		UVP240		
Maximum External Battery Pack (EBP) quantity		5 units		

## 5-10kVA 208 V VRLA (continued)

COMMUNICATION & MANAGEMENT			
Communication ports	USB, RS232, intelligent slot		
Pre-Installed SmartZone™ iNMC Card	N model only		
Local Display/Control Panel	3.5 inch colorful touch screen		
Audible Alarm	Yes		
Emergency Power Off (EPO)	Yes		
ENVIRONMENTAL			
Operating temperature	32°F - 104°F (0°C - 40°C) (no derating)		
Storage temperature	-25°C - 55°C (without batteries)		
Relative humidity	0 - 95% (non-condensing)		
Operating elevation	Up to 3000 m (derated 10%)		
Online thermal dissipation	1067 BTU/hr.	1423 BTU/hr.	1985 BTU/hr.
Protection Class	IP20		
Noise level	<55dB at 1 m	<58dB at 1 m	
CONFORMANCE			
Energy Saving	ENERGY STAR® 2.0		
Safety	cULus: UL 1778 5th Edition, CSA C22.2 NO.107.3-14		
FCC	FCC Part 15 Subpart B Class A, ANSI C63.4-2014		
Transportation	ISTA Procedure 2B		
Surge protection	IEEE/ANSI C62, 41 Category A, Level 3; 600Joules		
CUSTOMER SERVICE			
Warranty	3 years for UPS & EBP, 2 years for battery		
SUSTAINABLE OFFER STATUS			
Proposition 65 Warning	See Safety Sheet (IM053)		
PHYSICAL			
Maximum Height	131mm UPS + 131mm Battery		
Maximum Width	440mm UPS + 440mm Battery		
Maximum Depth	666mm UPS + 666mm Battery		
Rack Height	6 RU		
Net Weight	85kg	87kg	
Shipping Weight	101kg	103kg	
Shipping Height	280mm UPS + 280mm Battery + 144mm Pallet		
Shipping Width	595mm Pallet		
Shipping Depth	865mm Pallet		
Color	Black		

## EBP specifications

<b>MODEL</b>	<b>UVP240</b>
MATCHED UPS	<b>U05S11V / U06S11V / U10S11V / U06S12V / U10S12V U05N11V / U06N11V / U10N11V / U06N12V / U10N12V</b>
<b>BATTERY SYSTEM</b>	
Battery type	VRLA (lead acid maintenance free battery)
Typical battery life	3 - 5 years, depend on discharging cycle and ambient temperature
System voltage	±240 Vdc
Battery quantity	20 pcs.
Battery capacity	12 V/9 Ah
Replacement Cartridge Set	UVD240
<b>PHYSICAL</b>	
Dimension W × D × H	440 × 666.5 × 131mm
Net Weight	67.5kg
Maximum Height	13mm
Maximum Width	440mm
Maximum Depth	666mm
Rack Height	3 RU
Net Weight	67.5g
Shipping Weight	75kg
Shipping Height	280mm Battery + 144mm Pallet
Shipping Width	595mm Pallet
Shipping Depth	865mm Pallet
<b>ENVIRONMENTAL</b>	
Operating temperature	0°C - 40°C
Relative humidity	0 - 95% (non-condensing)
<b>CONFORMANCE</b>	
Safety	cULus: UL 1778 5th Edition, CSA C22.2 NO.107.3-14
Transportation	ISTA Procedure 2B

## UPS accessories

URC005	Relay card (MiniAS400) (12 V) (for 1 to 10kVA single phase UPS units)
UNCP01	Panduit® Intelligent Network Management Card (iNMC) See iNMC specs for more details
UTOWFT	Tower stabilizer brackets
URMKIT2	Rack mount rail kit for 5-10kVA UPS and EBP

### U06N12V / U10N12V (Rear)



### U05N11V (Rear)



### U06N11V / U10N11V (Rear)



### UVP240 (Rear)



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