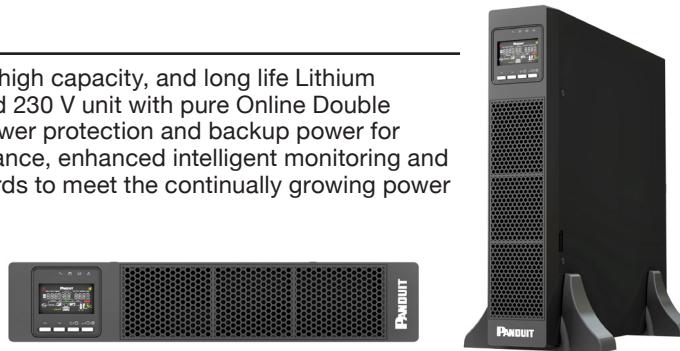


## over view

The Panduit® SmartZone™ Intelligent Rack UPS with compact, high capacity, and long life Lithium Ion battery, 1-3kVA single phase 120 V Line-Interactive unit and 230 V unit with pure Online Double Conversion system that delivers highly efficient and reliable power protection and backup power for your computer IT equipment. With excellent electrical performance, enhanced intelligent monitoring and network functions and complying with EMC and safety standards to meet the continually growing power demands of Data Center, Enterprise and Edge IT equipment.



## key features and benefits

<b>Rack/Tower convertible</b>	Support rack/tower installation with rotatable colorful LCD display
<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>	(110-300Vac Online models) (75-146Vac Line Interactive models), covering more voltage range, applicable for severe situation such as large power grid fluctuation
<b>High efficiency</b>	Up to 96.5% for Online models and up to 97% for Line-interactive models, 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>Intelligent Battery Management</b>	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 easy shut down the UPS when emergency event occurs
<b>Generator compatible</b>	Wide input frequency and voltage, supports connecting to generators, ensuring the uninterrupted 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>Programmable outlet group</b>	Loads connected to the programmable group will lose power firstly, saving more energy and extending the runtime for critical load
<b>Segment colorful LCD</b>	Colorful LCD with four buttons and LED indicators, providing intuitive display
<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>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/ups">www.panduit.com/ups</a> .

\* N Model UPS has an N in the 4<sup>th</sup> digit of the part number, e.g. U01N12L

# SmartZone™ UPS 1-3kVA Lithium Ion

## product specifications

### • 1-3kVA 230 V Lithium Ion (Online Models)

MODEL	U01S12L/U01N12L	U02S12L/U02N12L	U03S12L/U03N12L		
Output power capacity	1000 VA/1000 W	2000 VA/2000 W	3000 VA/3000 W		
Max Configurable Power (Watts)	1000 VA	2000 VA	3000 VA		
OUTPUT					
Max Configurable Power (Watts)	1000 W	2000 W	3000 W		
Nominal output voltage	230 Vac (220/240 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		1.0			
Load crest factor		3:1			
Topology	Double Conversion Online				
Waveform	Pure Sine Wave				
Overload capability	Online mode	105% - 125%: 1 min; 125% - 130%: 30 s; > 130%: 200 ms, transfer to bypass			
	Battery mode	105% - 125%: 1 min; 125% - 130%: 10 s; > 130%: 200 ms, shut down			
Transfer time (typical)	Online mode <-> Battery mode	0 ms			
	Inverter <-> Bypass	4 ms			
Efficiency	Online mode	89.5%	92.0%		
	ECO mode	95.0%	96.0%		
Output connection	Programmable	(4) IEC C13			
	Non-programmable	(4) IEC C13			
Bypass	Internal				
INPUT					
Nominal input voltage	230 Vac (220 Vac/240 Vac selectable)				
Input voltage range	Full load	176 - 264 Vac			
	Half load	110 - 300 Vac			
Input frequency range	40 - 70 Hz (auto sensing)				
Input connection	C14 socket (2 cords included)		C20 socket (2 cords included)		
Input power factor	>0.98 (full load)				
Cord Length	1.8 m (6 ft.)				
Number of Power Cords	Schuko CEE 7/EU1-16P and BS1363A				
BATTERY					
Battery type	Lithium-Ion (LiFePO4)				
Typical recharge time	3-4 hrs.				
Battery voltage	25.6 Vdc	76.8 Vdc	76.8 Vdc		
Charging current (max.)	2 A				

# SmartZone™ UPS 1-3kVA Lithium Ion

## 1-3kVA 230 V Lithium Ion (Online Models) (continued)

Backup time	Full load	9 min.	9 min.	9 min.
	Half load	20 min.	18 min.	18 min.
Expected Battery Life (years)	8-10 yrs.			
Internal Replacement Cartridge	ULC024	ULC272	ULC372	
<b>COMMUNICATION &amp; MANAGEMENT</b>				
Communication ports	USB, RS232, intelligent slot			
Pre-Installed SmartZone™ iNMC Card	N model only			
Local Display/Control Panel	Segment colorful screen			
Audible Alarm	Yes			
Emergency Power Off (EPO)	Yes			
<b>ENVIRONMENTAL</b>				
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	95 BTU/hr.	142 BTU/hr.	334 BTU/hr.	
Protection Class	IP20			
Noise level	<55dB at 1 m			
<b>CONFORMANCE</b>				
Safety	CB: IEC 62040-1:2017, CE-LVD: EN 62040-1:2008+A1: 2013, IEC 62133 (cell), IEC 62619 (pack)			
EMC	IEC 62040-2-2016, EN 62040-2-2018, BS62040-2-2018			
Transportation	ISTA Procedure 2A, UN 38.3			
Surge protection	ANSI C62.41 Category A (380 J)			
<b>CUSTOMER SERVICE</b>				
Warranty	5 years (UPS & Battery)			
<b>SUSTAINABLE OFFER STATUS</b>				
RoHS	Compliant			
Proposition 65 Warning	See Safety Sheet (IM053)			
<b>PHYSICAL</b>				
Maximum Height	86.5mm			
Maximum Width	440mm			
Maximum Depth	325mm	500mm	640mm	
Rack Height	2 RU			
Net Weight	9.5kg	15.6kg	20.7kg	
Shipping Weight	15.9kg	22.1kg	27.6kg	
Shipping Height	202mm (7.95 in.)			
Shipping Width	555mm (21.8 in.)			
Shipping Depth	545mm (21.4 in.)	630mm (24.8 in.)	770mm (29.9 in.)	
Color	Black			

# SmartZone™ UPS 1-3kVA Lithium Ion

## 1-3 kVA 120 V Lithium Ion (Line Interactive Models)

MODEL	U01S11L/U01N11L	U02S11L/U02N11L	U03S11L/U03N11L
Output power capacity	1000 VA	1500 VA	3000 VA
Max Configurable Power (Watts)	900 W	1350 W	2700 W (UL derated)
Nominal output voltage	120 Vac (100/110/115/125 Vac selectable)		
Output voltage distortion	Linear load	<3%	
	Non linear load	<5%	
Output frequency	Line mode	Sychronize with input	
	Battery mode	50/60 ± 0.1 Hz	
Output power factor		0.9	
Load crest factor		3:1	
Topology		Line-interactive	
Waveform		Pure Sine Wave	
Overload capability	Line mode	105%-110%, last warning 110%-120%, alarm for 10s and shutdown >120%, shut down immediately	
	Battery mode	105%-110%, last warning 110%-120%, alarm for 10s and shutdown >120%, shut down immediately	
Transfer time (typical)		4 - 6 ms.	
Efficiency	Line mode	96.5%	97%
	Battery mode	87.5%	89.5%
Output connection	Programmable	(2) NEMA 5-15R	
	Non-Programmable	(4) NEMA 5-15R	
Bypass		Internal	
INPUT			
Nominal input voltage		100 - 125Vac	
Input voltage range	Full load	75 - 146Vac	
Input frequency range		50/60 Hz (auto sensing)	
Input connection		NEMA 5-15P	
Cord length		3 m (10 ft.)	
Number of power cords		1 (fixed)	
BATTERY			
Battery type		Lithium-Ion (LiFePO4)	
Typical recharge time		3-4 hrs.	
Battery voltage	25.6 Vdc	48 Vdc	76.8 Vdc
Charging current (max.)		2 A	
Backup time	Full load	9 min.	7.5 min.
	Half load	22 min.	19 min.
Expected Battery Life (years)		8-10 yrs.	
Internal Replacement Cartridge	ULC024	ULC048	ULC372

# SmartZone™ UPS 1-3kVA Lithium Ion

## 1-3kVA 120 V Lithium Ion (continued)

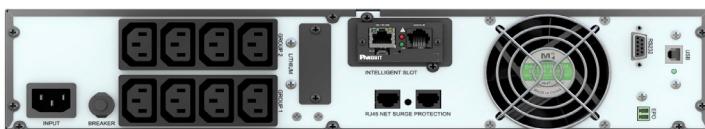
COMMUNICATION & MANAGEMENT			
Communication ports	USB, RS232, intelligent slot		
Pre-Installed SmartZone™ INMC Card	N model only		
Local Display/Control Panel	Segment colorful screen		
Audible Alarm	Yes		
Emergency Power Off (EPO)	Yes		
ENVIRONMENTAL			
Operating temperature	32°F - 104°F (0°C - 40°C) (no derating)		
Storage temperature	-25°C - 55°C (without batteries)		
Relative humidity	0 - 95% (non-condensing)		
Operating elevation	Up to 3000 m (derated 10%)		
Operating elevation	Up to 3000 m (derated 10%)		
Online thermal dissipation	95 BTU/hr.	142 BTU/hr.	334 BTU/hr.
Protection Class	IP20		
Noise level	<55dB at 1 m		
CONFORMANCE			
Safety	cTUVus: UL1778 5 <sup>th</sup> Edition, CSA C22.2 NO.107.3-14, UL 1642 (cell), UL 1973 (pack)		
FCC	FCC Part 15 Subpart B Class A, ANSI C63.4-2014		
Transportation	ISTA Procedure 2A, UN 38.3		
Surge protection	IEEE/ANSI C62.41 Category A Level 3		
CUSTOMER SERVICE			
Warranty	5 years (UPS & Battery)		
SUSTAINABLE OFFER STATUS			
RoHS	Compliant		
Proposition 65 Warning	See Safety Sheet (IM053)		
PHYSICAL			
Maximum Height	86.5mm (3.42 in.)		
Maximum Width	440mm (17.2 in.)		
Maximum Depth	460mm (18.1 in.)		640mm (25.1 in.)
Rack Height	2 RU		
Net Weight	14.2kg (31.2 lbs.)	17.1kg (37.6 lbs.)	31kg (68.2 lbs.)
Shipping Weight	20.4kg (44.8 lbs.)	23.1kg (50.8 lbs.)	31.6kg (69.5 lbs.)
Shipping Height	202mm (7.95 in.)		
Shipping Width	555mm (21.8 in.)		
Shipping Depth	590mm (23.2 in.)		760mm (29.9 in.)
Color	Black		

# SmartZone™ UPS 1-3kVA Lithium Ion

## 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
URMKIT1	Rack mount rail kit for 1-3kVA UPS and EBP

**U01N12L (Rear)**



**U01N11L (Rear)**



**U02N12L (Rear)**



**U02N11L (Rear)**



**U03N12L (Rear)**



**U03N11L (Rear)**



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