### UPS 5, 6, 10 kVA Lithium-Ion



#### specifications

The 5, 6, 10 kVA single phase Lithium-Ion UPS at 208V/230V/240V 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, paralleling capability, 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

Parallel functionality: UPS protection can grow as your load grows - Connect up to four units in parallel for higher backup power	•			
Conversion with fully digital control:         regulation, frequency regulation, and surge protection           Wide input voltage range:         176-300 VAC covering extended voltage range, applicable for severe situation such as large power grid fluctuation           High efficiency:         Up to 98%, reducing the energy waste and the cost of electricity           Energy savings:         High Efficiency on Smart ECO mode for Online Double Conversion models           Green design:         RoHS and Reach, CE/UL/ENERGY STAR® 2.0 compliant for North America units           Output unity power factor:         Means more active power for IT equipment load           Input power factor:         Power factor correction topology on the input side dramatically reducing the total harmonic distortion (THD)           Rack/Tower convertible:         Supports rack/tower installation with rotatable colorful touchscreen LCD panel           Expandable battery packs:         User replaceable 4 external battery packs, extending the UPS backup running time packs;           Intelligent Battery Management:         Three-stage battery charging method matching the most optimal curve and temperature compensated with advanced algorithms to prolonging the battery life           Pol. Swappalbe battery design:         Allows to quickly and easily shut down the UPS when emergency event occurs           Center for the replacement of battery carridge without powering down the UPS           design:         Cold start function:           Prol Swappalbe battery design: <td< td=""><td>Parallel functionality:</td><td>UPS protection can grow as your load grows - Connect up to four units in parallel for higher backup power</td></td<>	Parallel functionality:	UPS protection can grow as your load grows - Connect up to four units in parallel for higher backup power		
range:         power gird fluctuation           High efficiency:         Up to 98%, reducing the energy waste and the cost of electricity           Energy savings:         High Efficiency on Smart EcO mode for Online Double Conversion models           Green design:         RoHS and Reach, CE/UL/ENERGY STAR® 2.0 compilant for North America units           Output unity power factor:         Means more active power for IT equipment load factor:           Input power factor:         Power factor correction topology on the input side dramatically reducing the total harmonic distortion (THD)           Rack/Tower convertible:         Supports rack/tower installation with rotatable colorful touchscreen LCD panel           Expandable battery packs:         User replaceable 4 external battery packs, extending the UPS backup running time packs:           Intelligent Battery Management:         Three-stage battery charging method matching the most optimal curve and temperature compensated with advanced algorithms to prolonging the battery life           EPO function (Emergency Power Off):         Allows to quickly and easily shut down the UPS when emergency event occurs           Cold start function:         Allows to boot up the ups without mains input but with batteries           Hot-Swappable battery design:         Allows to boot up the ups without mains input but with batteries           Intelligent fan speed regulation:         Allows to boot up the ups without mains input but with batteries           Cold start function:         Allows to	Conversion with fully			
Energy savings: High Efficiency on Smart ECO mode for Online Double Conversion models				
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Output unity power factor:         Means more active power for IT equipment load factor:           Input power factor:         Power factor correction topology on the input side dramatically reducing the total harmonic distortion (THD)           Rack/Tower convertible:         Supports rack/fower installation with rotatable colorful touchscreen LCD panel           Expandable battery packs:         User replaceable 4 external battery packs, extending the UPS backup running time           Intelligent Battery Management:         Three-stage battery charging method matching the most optimal curve and temperature compensated with advanced algorithms to prolonging the battery life           Report function:         Allows to quickly and easily shut down the UPS when emergency event occurs           Generator compatible:         Wide input frequency and voltage, supports connecting to generators, ensuring the uninterruptible operation           Hot-Swappable battery design:         Can perform the replacement of battery cartridge without powering down the UPS           Cold start function:         Allows to boot up the ups without mains input but with batteries           Intelligent fan speed regulation:         Automatically adjustment of fan speed due to the ambient temperature and load percentage           Multiple communication interface:         Short-circuit, overload, overheat, battery overcharge and over discharge, output low voltage, fan fault alarm           Programmable outlet group with Smart Load Shed allows logical group shutdown with time or load.         Loads connected to the programmable gro	Energy savings:	High Efficiency on Smart ECO mode for Online Double Conversion models		
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User replaceable 4 external battery packs:   User replaceable 4 external battery packs:   Intelligent Battery packs:   Intelligent Battery   Three-stage battery charging method matching the most optimal curve and temperature compensated with advanced algorithms to prolonging the battery life   Allows to quickly and easily shut down the UPS when emergency event occurs   Generator compatible:   Wide input frequency and voltage, supports connecting to generators, ensuring the uninterruptible operation   Can perform the replacement of battery cartridge without powering down the UPS   Cold start function:   Allows to boot up the ups without mains input but with batteries   Automatically adjustment of fan speed due to the ambient temperature and load percentage   RS232/USB/intelligent slot, realizing communication and monitoring function   RS232/USB/intelligent slot, realizing communication and monitoring function   Frogrammable outlet group with Smart Load Shedding:   Colorful LCD with cold start button and LED indicators, providing intuitive display   Colorful LCD with cold start button and LED indicators, providing intuitive display   Colorful LCD with cold start button and LED indicators, providing intuitive display   Colorful Cloud Ready (included with N Models*):   Support for technology allowing to easily, securely and quickly connect to Cloud DCIM with management, monitoring, control and allerting of Power Chain, Environmental, Cooling, Security, Asset, and Connectivity Infrastructure Assets.   Configure, monitor, and manage the UPS (includes graceful equipment shutdown) remotely via RS-232 or USB or   Configure, monitor, and manage the UPS (includes graceful equipment shutdown) remotely via RS-232 or USB or   Configure, monitor, and manage the UPS (includes graceful equipment shutdown) remotely via RS-232 or USB or   Configure, monitor, and manage the UPS (includes graceful equipment shutdown) remotely via RS-232 or USB or   Configure, monitor, and manage the UPS (includes graceful equipment shutdown) remo	Input power factor:	Power factor correction topology on the input side dramatically reducing the total harmonic distortion (THD)		
Intelligent Battery   Three-stage battery charging method matching the most optimal curve and temperature compensated with advanced algorithms to prolonging the battery life	Rack/Tower convertible:	Supports rack/tower installation with rotatable colorful touchscreen LCD panel		
Management:advanced algorithms to prolonging the battery lifeEPO function (Emergency Power Off):Allows to quickly and easily shut down the UPS when emergency event occursGenerator compatible:Wide input frequency and voltage, supports connecting to generators, ensuring the uninterruptible operationHot-Swappable battery design:Can perform the replacement of battery cartridge without powering down the UPSCold start function:Allows to boot up the ups without mains input but with batteriesIntelligent fan speed regulation:Automatically adjustment of fan speed due to the ambient temperature and load percentageMultiple communication interface:RS232/USB/intelligent slot, realizing communication and monitoring functionComprehensive protection function:Short-circuit, overload, overheat, battery overcharge and over discharge, output low voltage, fan fault alarmProgrammable outlet group with Smart Load Shedding: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.Touch-Screen colorful LCDColorful LCD with cold start button and LED indicators, providing intuitive displayTouch-Screen colorSub for firmware upgrade and RS-485 for connecting environmental and security sensors. Built-in WiFi and Bluetodth hardware support with future optional firmware upgrade.DCIM Cloud Ready (included with N Models*):Support for technology allowing to easily, securely and quickly connect to Cloud DCIM with management, monitoring, control and alerting of Power Chain, Environmental, Cooling, Security, Asset, and Connectivity Infrastructure Assets.mPower ManagementConfigure, mon	-	User replaceable 4 external battery packs, extending the UPS backup running time		
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Cold start function: Allows to boot up the ups without mains input but with batteries  Intelligent fan speed regulation: Automatically adjustment of fan speed due to the ambient temperature and load percentage  Multiple communication interface: RS232/USB/intelligent slot, realizing communication and monitoring function  Interface: Short-circuit, overload, overheat, battery overcharge and over discharge, output low voltage, fan fault alarm protection function:  Programmable outlet group with Smart Load Shod allows logical 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.  Screen colorful LCD with cold start button and LED indicators, providing intuitive display  Intelligent Network Management Card (included with N Models*):  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.  Support for technology allowing to easily, securely and quickly connect to Cloud DCIM with management, monitoring, control and alerting of Power Chain, Environmental, Cooling, Security, Asset, and Connectivity Infrastructure Assets.  mPower Management Configure, monitor, and manage the UPS (includes graceful equipment shutdown) remotely via RS-232 or USB or	Generator compatible:	Wide input frequency and voltage, supports connecting to generators, ensuring the uninterruptible operation		
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Comprehensive protection function:  Programmable outlet group with Smart Load Shedding:  Touch-Screen colorful LCD with cold start button and LED indicators, providing intuitive display  Intelligent Network Management Card (included with N Models*):  DCIM Cloud Ready (included with N Models*):  MPower Management  Configure, monitor, and manage the UPS (includes graceful equipment shutdown) remotely via RS-232 or USB or		Automatically adjustment of fan speed due to the ambient temperature and load percentage		
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Management Card (included with N Models*):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.DCIM Cloud Ready (included with N Models*):Support for technology allowing to easily, securely and quickly connect to Cloud DCIM with management, monitoring, control and alerting of Power Chain, Environmental, Cooling, Security, Asset, and Connectivity Infrastructure Assets.mPower ManagementConfigure, monitor, and manage the UPS (includes graceful equipment shutdown) remotely via RS-232 or USB or		Colorful LCD with cold start button and LED indicators, providing intuitive display		
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	(included with N	monitoring, control and alerting of Power Chain, Environmental, Cooling, Security, Asset, and Connectivity		

<sup>\*</sup>N Model UPS has an N in the 4th digit of the part number, e.g. U05N11L

# UPS 5, 6, 10 kVA Lithium-lon

#### product specifications

5, 6, 10 kVA 230 V Lithium-Ion			
MODEL	U05N12L	U06N12L	U10N12L
Capacity (VA/Watts):	5000VA/5000W	6000VA/6000W	10000VA/10000W
Input: Output Phase Configuration:		L-N-PE : L-N-PE	
Topology:		Double Conversion On-Line	
Cooling:		Fan cooled	
Dimension W x D x H, in. (mm):	17.3 x 24.4 x 3.4 (440 x 621.5 x	86.5) (Pwr Module) + 17.3 x 24.4 x	3.4 (440 x 621.5 x 86.5) (Batte
Rack Height Dimension:		4 RU	
Product Weight:		TBD	
Installation Type:		Rack/Tower	
INPUT CHARACTERISTICS			
Input voltage nominal, VAC:		220, 230 (Default), 240	
Input voltage range at full load, VAC:		176-300	
Input voltage range derating to 50% load, VAC:		110-176	
Input Frequency Range, Hz:		40-70	
Input Power Factor:		>0.99 (full load)	
Harmonic distortion(THDi):		< 3%	
Input Connection:		Terminal (L+N+G)	
Surge protection:		IEC61000-4-5; 600Joules	
OUTPUT CHARACTERISTICS			
Output Power, Watts:	5000	6000	10000
Output power factor:		1.0	
Dutput Wave Form:		Pure Sine Wave	
On Line Efficiency (typical):	94	.80%	95.30%
Economy mode efficiency:		.50%	98.00%
Output voltage selections (Phase Voltage), VAC:	220, 230 (default), 240		1 2312375
Output Voltage Regulation (Static):	± 1%		
Output Voltage Regulation (Dynamic):	± 5%		
Output Voltage THD w/ full linear load:	± 5% (Full Linear load)		
Output Voltage THD w/ non-linear load:		< 4% (Full nonlinear load)	
Output Frequency:		50/60 Hz ± 10% (Line mode)	
Output Frequency.	50	/60(default) Hz ± 0.1 Hz(Battery m	node)
Over Load Capability (Online mode):	105%~110%: UPS transfer to bypass after 60 minutes when the utility is normal 110%~125%: UPS transfer to bypass after 10 minutes when the utility is normal 125%~150%: UPS transfer to bypass after 1 minute when the utility is normal >150%: UPS transfer to bypass after 0.2 second when the utility is normal		
Over Load Capability (Battery mode):	105%~110%: UPS after 10 minute shut down 110%~125%: UPS after 1 minute shut down 125%~150%: UPS after 10 second shut down >150%: UPS after 0.2 second shut down		t down ut down
Over Load Capability (Bypass mode):	105%~130%: Only Overload alarm 130%~150%: UPS after 10 minute shut down 150%~200%: UPS after 1 minute shut down >200%: after 0.2 second shut down		ut down It down
Current Crest Ratio:		3:1	
Non-Programmable Receptacles outlets:		HW Terminal (L+N+G)	
Programmable Receptacles outlets:		(2)C19 + (3)C13	
TRANSFER TIME			
AC mode <->Batt. Mode:		0 ms typical	
Inverter <-> bypass:		0 ms typical	
BYPASS		1) 6.000	
Bypass Voltage Range:	220 Vac M	ax.voltage: +25% (optional +10%,	+15% +20%)
Bypass Frequency Range:		Frequency Protection Range: ±10	
ECO Range:		Rated Voltage: ±10%	,,,
Loo hallye.		nated voitage. ±1070	

## **UPS 5, 6, 10 kVA Lithium-Ion**

### product specifications

	Lithium ion	
		9
	32	19
12		14
E	4	
3.5-inc	ch touchscreen with gravity se	nsing
	Yes	
	Yes	
	Yes	
-	Yes (for BMS)	
	Yes	
	Yes	
	32°F - 104°F (0°C - 40°C)	
-13°F - 1	· ,	atteries)
		/
		·e
Ü	>1000 meters Derating	
	IP20	
45dE	3	50dB
	ROHS 2.0	
CB: IEC 62040	-1:2017, CE-LVD: EN 62040-1:2	2008+A1:2013
IEC62040-2-2016/EN62040-2-2018 C2, UKCA, RCM		
	ISTA Procedure 2A	
	Yes	
Line Mode: Switch to E	Bypass; Backup Mode: Shut do	own UPS immediately
	Alarm and Switch off	- /
		tem Fault
	≤3.5mA	
Panduit		
	, andan	
	1 niece	
	1 piece	
	1 piece	
	1 piece 1 set	
	1 piece 1 set 1 set	
	1 piece 1 set	
	3.5-ind -13°F - 1 0 - 45dE  CB: IEC 62040 IEC62040-2  Line Mode: Switch to E	12  1-3  Yes  Yes  4  E  3.5-inch touchscreen with gravity ser  Yes  Yes  Yes  Yes  Yes  Yes  Yes

## UPS 5, 6, 10 kVA Lithium-Ion

#### 5, 6, 10 kVA 208, 240 V Lithium-Ion

MODEL	U05N11L	U06N11L	U10N11L
Capacity (VA/Watts):	5000 VA/5000 W	6000 VA/6000 W	10000 VA/10000 W
Input: Output Phase Configuration:	L1-L2-PE	: L1-L2-PE	
Topology:		Double Conversion On-Line	
Cooling:		Fan cooled	
Dimension W × D × H (mm):	17.3 x 24.4 x 3.4 (440 x 621.5 x 8	36.5) (Pwr Module) + 17.3 x 24.4 x	3.4 (440 x 621.5 x 86.5) (Batter
Rack Height Dimension, in. (mm):		4 RU	
Product Weight:		TBD	
Installation Type:		Rack/Tower	
INPUT CHARACTERISTICS			
Input voltage nominal, VAC:		208 (Default), 240	
Input voltage range at full load, VAC:		176-300	
Input voltage range derating to 50% load, VAC:		110-176	
Input Frequency Range, Hz:		40-70	
Input Power Factor:		>0.99 (full load)	
Harmonic distortion (THDi):		< 3%	
Input Connection, feet (m):	Power Cord L6-30P, 10(3)	1	I (L+L+G)
Surgery protection:		ISI C62,41 Category A,Level 3 :6	,
OUTPUT CHARACTERISTICS	1222/10	ier 362, 11 3atogory 7t,237013 ,5	00000100
Output Power, W:	5000	6000	10000
Output power factor:	3000	1.0	10000
Output Wave Form:		Sine wave	
On Line Efficiency (up to):	94	80%	95.30%
Economy mode efficiency:		50%	98.00%
Output voltage selections (Phase Voltage), VAC:	97.3		96.00%
Output Voltage Regulation (Static):		208 (default), 240	
	± 1% ± 5%		
Output Voltage Regulation (Dynamic):	< 2% (Full Linear load)		
Output Voltage THD w/ full linear load:			
Output Voltage THD w/ non-linear load:		< 4% (Full nonlinear load)	
Output Frequency:	50/6	$50/60 \text{ Hz} \pm 10\%$ (Line mode) $60(\text{default}) \text{ Hz} \pm 0.1 \text{ Hz}$ (Battery m	node)
Over Load Capability (Online mode):	105%~110%: UPS transfer to bypass after 60 minutes when the utility is normal 110%~125%: UPS transfer to bypass after 10 minutes when the utility is normal 125%~150%: UPS transfer to bypass after 1 minute when the utility is normal >150%: UPS transfer to bypass after 0.2 second when the utility is normal		when the utility is normal when the utility is normal hen the utility is normal
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Over Load Capability (Bypass mode):	105%~130%: Only Overload alarm 130%~150%: UPS after 10 minute shut down 150%~200%: UPS after 1 minute shut down >200%: after 0.2 second shut down		ıt down t down
Current Crest Ratio:		3:1	
Non-Programmable Receptacles outlets:	2*L6-30R	HW termin	nal (L+L+G)
Programmable Receptacles outlets:	2*L6-20R	2*L6	-30R
TRANSFER TIME			
AC mode <->Batt. Mode:		0 ms typical	
Inverter <-> bypass:		0 ms typical	
BYPASS			
Bypass Voltage Range:	208 VAC Ma	ax.voltage: +25% (optional +10%	,+15%,+20%)
Bypass Frequency Range:	F	requency Protection Range: ±10	%

# UPS 5, 6, 10 kVA Lithium-lon

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DATTERV			
BATTERY Rettery Type:		Lithium Ion	
Battery Type:		Lithium-Ion 192 VDC	
Nominal DC Voltage:	00		0
Backup Time (100% load), mins.:	20	15.5	9
Backup Time (50% load), mins.:	40	32	19
Charging current (max.):	12,		14A
Battery Recharing Time (to 90%):		1-3	
Hot Swappable Y/N:		Yes	
Ext. Battery Connector. Y/N:		Yes	
Maximum EBP quantity:		4	
COMMUNICATION SECTION AND USER INTERFAC	<u> </u>		
Control panel LCD(English-Language):	3.5-ir	nch touchscreen with gravity se	nsing
LCD:		Yes	
RS232 port:		Yes	
USB/HID port:		Yes	
RS485 port:		Yes (for BMS)	
SNMP Slot:		Yes	
Emergency Power Off (EPO):		Yes	
ENVIRONMENT			
Operating Temperature:		0 - 40 °C	
Storage Temperature:	13 °F - 1	131 °F (-25 °C - 55 °C) (without b	patteries)
Operating Humidity:		0 - 95% (non-condensing)	
Storage Humidity:	0 - 95% (non-condensing)		
Operating altitude:	0 - 1000m Normally operate >1000m Derating		
Protection Class:	IP20		
Audible Noise (Audible noise at 1 meter from surface of unit):	450	dB	50dB
REGULATORY COMPLIANCE			
Energy saving:		Enegy Star 2.0	
Enviroment:		ROHS 2.0	
Safety:	UL1778 5th Edition CSA C22.2 NO.107.3-14		
EMI:		FCC Part 15, Subpart B, Class A	
		ANSI C63.4-2014	
Transportation:		ISTA Procedure 2A	
OTHERS			
Generator Compatible:		Yes	
Overheat:	Line Mode: Switch to	Bypass; Backup Mode: Shut do	own UPS immediately
Low battery voltage:		Alarm and Switch off	
EPO:		Shut down UPS immediately	
Audible & Visual alarms:	Line Failu	ıre, Battery Low, Overload, Sys	tem Fault
Leakage current:		≤3.5mA	
User Manual:		English Language	
Parallel Operation Capability:		Yes	
Maximum parallel quantity:		4	
		Customization	
Protocol:	Black		
Color:		Panduit	
Color: Logo:		Panduit	
Color: Logo: ACCESSORIES		Panduit 1 piece	
Color: Logo: ACCESSORIES RS232 cable:			
Protocol: Color: Logo: ACCESSORIES RS232 cable: USB cable: Mounting bracket:		1 piece	
Color: Logo: ACCESSORIES RS232 cable:		1 piece 1 piece	
Color: Logo: ACCESSORIES RS232 cable: USB cable: Mounting bracket:		1 piece 1 piece 1 set	

# UPS 5, 6, 10 kVA Lithium-lon

### EBP specifications

MODEL	UVPL12H
Cell model:	26650 cylinder
Cell material:	LiFePO4
Nominal voltage, V:	3.2
Nominal capacity:	3Ah
Expected battery life, yrs:	8-10
BATTERY PACK	
Nominal voltage, VDC:	192
Nominal capacity:	12Ah
Max. charge current, Amps:	12
Max. discharge power, W:	11000
Communication port:	RS485
Dimension (W x D x H), in. (mm):	16.9 x 26.7 x 3.3 (430 x 680 x 85) 2 U
Weight, lbs. (kg):	72.3 (32.8)
Certificate:	IEC62619, UL1973, UN38.3, IEC62133, UL1642, CE, UKCA, RCM
Daisy chain capacity:	4

#### **UPS** accessories

Part Number	Description
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:	UPS rack mount kit for the 1-3 kVA and 5-20 kVA UPS
UTFMRDU:	Step-Down Transformer Distribution Unit is a voltage converter that provides 120 VAC output power from 208 VAC input.
EXTWLIUPS2:	5-10 kVA lithium-ion UPS 1 year extended warranty
EXTWLIBP2:	5-10 kVA lithium-ion battery pack 1 year extended warranty



U05N11L



U05N12L



U06N11L & U10N11L



U06N12L & U10N12L



UVPL12H

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For a copy of Panduit product warranties, log on to www.panduit.com/warranty

