

EATON 9PX LITHIUM ION TECHNICAL SPECIFICATION ANZ

UPS Model (Catalogue Number):	9PX1500IRTANZ-L	9PX2000IRTAU-L	9PX3000IRTANZ-L
GENERAL			
Rating (VA/W)	1500/1500	2000/1800	3000/2400 (3000 with EBM)
UPS Topology	Online Double Conversion with automatic bypass and power factor correction		
UPS Performance Classification	VFI-SS-311		
AC Power distribution compatibility	TN-S/IT		
MECHANICAL			
UPS Dimensions (W x D x H), mm	440 x 450 x 86.5	440 x 605 x 86.5	440 x 605 x 86.5
UPS Gross Weight, kg	15.8	22.1	22.8
External Battery Module (EBM) Model	9PXEBM48RT1U-L	9PXEBM72RT1U-L	
EBM Dimensions (W x D x H), mm	438 x 448 x 42.9	438 x 603 x 42.9	
EBM Gross Weight, kg	16.6	21.2	
Input Connection	C14 (10A)	C14 (10A)	C20 (16A)
Output Connection	(8) C13 10A	(6) C13 10A, (2) AU 10A GPO	(8) C13 10A, (2) C19 16A
Degree of Protection (EN 60529)	20		
ENVIRONMENTAL			
Acoustic Noise: 1m, 30°C ambient temperature	<40dBA	<47dBA	<47dBA
Ambient storage temperature range	-25°C~55°C without batteries		
	-20°C~55°C with batteries		
Ambient service temperature range	0°C~40°C		
Relative humidity range	0-96%(non condensing)		
Elevation	0~1500m @ 0°C ~ 40 °C		
	1500m~3000m @ 0°C ~ 35 °C		
	No de-rating up to 3000m if room temperature stays below 35°C		
EFFICIENCY			
Efficiency in double-conversion, 100% load	93%	93%	94%
Efficiency in High Efficiency mode, 100% load	97.50%	97.90%	98.10%
Efficiency in battery mode, 100% load	88.50%	90.20%	89.70%
Efficiency in bypass mode, 100% load	97.50%	97.90%	98.10%
ELECTRICAL CHARACTERISTICS (INPUT)			
Number of Input Phases	1 Ph 3 wire		
Nominal Input Voltage	230V (default). 200/208/220/230/240		
Input Voltage Range	+/-10%		
Input current	9A	10A	16A
Inrush Current (A) <1ms	<8 times nominal		
Earth leakage current	≤3.5mA		
Input current distortion at rated input current	<12% THDi		
Bypass tolerance	-20%/+15%		
Input Frequency Range	50Hz/60Hz Auto detection		
Frequency tolerance	40Hz~70Hz		
Input power factor, double conversion 100% load	>0.99		
Input Surge Rating	MOV: 510V 296J		
Back feed protection	Active and Neutral	Active and Neutral	Active and Neutral

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ELECTRICAL CHARACTERISTICS (OUTPUT)			
Number of output phases	1 Ph 3 wire		
Crest factor	3:1		
Rated output voltage	230V (default), 200/208/220/230/240		
Static Regulation	Normal mode: ±1%, Battery mode: ±2%, CVCF mode: ±4%		
Total voltage harmonic distortion, linear load	3%		
Total voltage harmonic distortion, non-linear load	5%		
Load power factor range	0.7 lagging to 1.0		
Transient Response at 20%-100%-20% step R load	±6%(RMS)		
Rated output frequency	50Hz or 60 Hz ± 0.1 Hz		
Output frequency variation	<1%		
Slew rate	<5% rated RMS current		
Output Current (A) @ 240V	6.25	8.33	12.5
Overload Capability	Online: 102~130% for 12s, 130%~150% for 2s, >150% shutdown after 300ms		
	Battery: 102%~130% for 12s, 130% for 2s, Overload warning then stop output		
	Bypass: 102%~110% Overload warning, 110%~130% for 5min, 130%~150% for 15s, >150% for 300ms		
Short Circuit Capability	3 time of rate RMS current ≥5 cycle		
SAFETY & COMPLIANCE			
Agency markings	CE, RCM		
EMC (IEC 62040-2: 2006)	Cat C1 Emission, C2 Immunity		
Compliance	IEC/EN 62040-1, IEC/EN 62040-2 Cat C1, IEC/EN 62040-3, ROHS, UL1778		
BATTERY			
Battery type	Lithium Ion (LFP)		
Float Service Life	8 years@25°C		
Serviceability	Hotswap and easy replace pack		
Battery Management	Built-In 24x7 monitoring, 3min pre-alarm		
Max Charger Current	1.4	1.7	
UPS Battery Nominal Voltage (Amps)	48V	76.8V	
Capacity	9Ah		
External Battery Module (EBM) Compatibility	Up to 4	Up to 4	Up to 4
COMMUNICATION & HMI			
Standard connectivity ports	USB & Serial ports, dry contacts, RPO & ROO connectors		
Compatible communications cards	NETWORK-M2, INDGW-M2, RELAY-MS		
HMI	4 LEDS + Multilingual LCD : access to measures, alarm messages and customization		