

# INTEGRITY MAX Product Specifications

## 8.2–10 kVA

MODEL		NPTU8200	NPTU10.0
<b>TOPOLOGY</b>		Double-conversion true sine wave output, IGBT rectifier and inverter with internal isolation transformer and manual bypass.	
<b>INPUT</b>	Voltage (VAC)	200 / 208 / 220 / 230 / 240	
	Voltage Range (VAC)	176 – 275	
	Frequency (Hz)	50 / 60 Auto Detect	
	Frequency Tolerance	± 10% (Before Switching to Batteries)	
	Power Factor	≥ 0.99	
	Current THDi	< 5.0%	
	Connection	Hardwired *	
	Rated Current (A)	48	57
<b>OUTPUT</b>	Capacity (VA / Watts)	8200 / 8200	10000 / 9000
	Voltage (VAC)	120/208/240; 220; 220; 230	
	Voltage Regulation	± 1.0% (when supplied from either mains input or battery)	
	Voltage THDv	≤ 2.0% Linear Load, ≤ 5% Non-linear Load	
	Power Factor	1.0	0.9
	Step Load Response	± 5.0% for 100% Step Load Change Return to ± 1.0% Within 4 Cycles	
	Crest Factor	3:1	
	Frequency (Hz)	50 / 60 Synchronize with Utility	
	Frequency Regulation	± 0.1 Hz	
	Overload	> 105%, ≤ 130% = 10 Minutes > 130%, < 150% = 1 Minute ≥ 150%, ≤ 300% = 500ms	
	Efficiency	AC-DC-AC ≥ 91.0% DC-AC ≥ 88.0%	
	Connection	Hardwired or with Output Receptacles Optional (Contact Factory)	
<b>BYPASS</b>	Voltage Sync Range	Selectable (± 10, 15, 20%)	
	Transformer Voltage Regulation	3%	
	Overload	< 130% = Continuous ≥ 130% < 150% = 10 Minutes 150% = 10 Seconds	

BATTERY		
<b>BATTERY</b>	Voltage (VDC)	192 Nominal
	Battery	12V, High Rate, Valve Regulated Sealed Lead-Acid, Flame Retardant
	Quantity	16
	Charge Current (ADC)	3 Amps
	Backup Time (min)	See Run-time Chart
	Recharge Time	90% > 8 Hrs
ENVIRONMENT		
<b>ENVIRONMENT</b>	Temperature (°C)	Operating: -5 to 40 °C; Storage: -25 to 55 °C
	Altitude (m)	Operating: 1,000
	Humidity	5.0% to 90.0%, Non-Condensing
	Audible (dBA)	≤ 55 @ 1 Meter from Front of Unit
	Heat Dissipation (BTU/hr)	2767
AGENCIES		
<b>AGENCIES</b>	EMC	FCC Part 15J Class A EN 55022 Class A / CISPR 22 EN/IEC 62040-2 Electromagnetic Compatibility IEC 61000-3-11 Limitations of Voltage Fluctuations & Flicker IEC 61000-3-12 Limits of Harmonic Currents Produced IEC61000-4-2, Electrostatic Discharge IEC61000-4-3, Level 3 Radiated Electromagnetic Field Immunity IEC61000-4-4, Level 4 Electrical Fast Transient/ Burst Immunity IEC61000-4-5, Level 4 Surge Immunity IEC61000-4-6, Level 3 Immunity to Conducted Radio Frequency Disturbances IEC61000-4-8, Level 4 Power Frequency Magnetic Field Immunity IEC61000-4-11, Voltage Dips, Short Interruptions, and Voltage Variations IEC62040-1-1, Safety & Leakage Current IEC62040-1-2, Insulation & Dielectric Rigidity
	Safety Agencies	UL1778 cUL to CSA22.2 No.107.3 IEC 62040-1
	RoHS	All Units are RoHS Compliant (where applicable)
OTHER		
<b>OTHER</b>	Communication	RS-232 USB DB-9 Dry Contacts Internal SNMP Adapter (Optional)
	Unit Weight (lbs/kg)	317 / 144
	Shipping Weight (lbs/kg)	391 / 177
	Plug & Receptacle*	Contact Factory for PDU Configurations

\* Hardwired unit is standard. Plug & Receptacle is optional. Contact factory for part numbers.

**NOISE REJECTION-ISOLATION:** With unit under power and an ANSI/IEEE C62.41Cat. A pulse applied either normal or common mode at the input, the noise output voltage will be less than 10V normal mode and less than 0.5V common mode in all four quadrants (CM-NM, NM-NM, CM-CM, NM-CM).

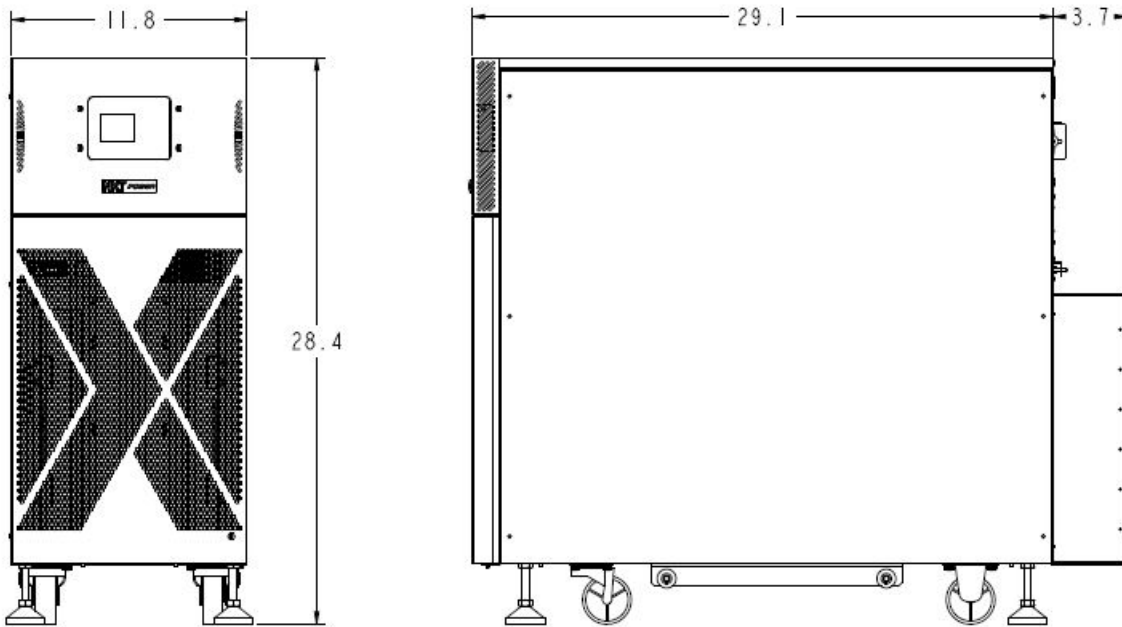
**SURGE VOLTAGE WITHSTAND CAPABILITY:** Tested under power to ANSI/IEEE C62.41 Cat. A & B (formerly IEEE587-1980). Cat. A - 6000V @ 200 amps, 0.5 µsec risetime, 100 kHz decay, Cat. B - 6000V @ 500 amps, 0.5 µsec risetime, 100 kHz decay.

**Battery Backup Run Time Chart (Internal Batteries Only)**

Model	Load	25%	50%	75%	100%
	NPTU8200		23	8	3
NPTU10.0		19	6	3	1

Notes: Run-Times are in minutes and based on new fully charged batteries at 25 deg C ambient.

**Product Dimensions (Inches)**



**Warranty Support**

NXT Power warrants the components (including internal batteries) used in its uninterruptible power supplies to be free from defects in materials and workmanship for a period of three years from the date of shipment. See Warranty Statement for complete details. For North American service or support on any NXT Power product, please contact NXT Power at (877) NXT POWR (877-698-7697). In Illinois, call (872) 310-4056. To view the NXT Power Warranty Policy and Procedures, visit [www.nxtpower.com](http://www.nxtpower.com)