

# NER PLUS<sup>®</sup>



EX 3K

EX 2K  
EX 2KL/3KL

EX 1K  
EX 1KL

## HIGH PERFORMANCE TRUE DOUBLE CONVERSION ONLINE UPS

- DSP control optimizes reliability
- High input power factor >0.99
- Output power factor 0.9
- Wide input voltage range
- Converter mode available
- Generator compatible
- Auto self-testing system
- Extendable runtime
- Multiple communication ports
- Power management software
- Optional SNMP, Relay, WIFI cards
- Temperature compensation
- Efficiency mode (ECO)
- Compact design



**1-3K**

- 1. Input socket
- 2. Input breaker
- 3. USB communication port
- 4. RS-232 communication port
- 5. Intelligent slot
- 6. Output socket
- 7. Battery connection (only available for L model)
- 8. Output terminal

MODEL		EX 1K(L)		EX 2K(L)		EX 3K(L)		
PHASE	PHASE	Single phase with ground						
CAPACITY	CAPACITY	1000 VA / 900 W		2000 VA / 1800 W		3000 VA / 2700 W		
INPUT	Nominal Voltage	208/220/230/240VAC						
	Voltage Range	110-300 VAC (Based on load at 50%) ; 176-300 VAC (Based on load at 100%)						
	Frequency Range	40Hz ~ 70 Hz						
	Power Factor	≥ 0.99 @ Nominal Voltage (100% load)						
OUTPUT	Output Voltage	208/220/230/240VAC						
	Voltage Regulation	± 1%						
	Frequency Range (Synchronized Range)	47 ~ 53 Hz or 57 ~ 63 Hz						
	Frequency Range (Batt. Mode)	50 Hz or 60Hz ± 0.5%						
	Current Crest Ratio	3:1						
	Harmonic Distortion	≤ 3 % THD (Linear Load) ; ≤ 6 % THD (Non-linear Load)						
	Transfer Time	AC Mode to Battery Mode	Zero					
	Inverter to Bypass	4 ms (Typical)						
	Waveform (Batt. Mode)	Pure Sinewave						
EFFICIENCY	To AC Mode	88%		89%		90%		
	To Battery Mode	83%		85%		88%		
BATTERY	Standard Model	Battery Type	12 V / 9 AH		12 V / 9 AH		12 V / 9 AH	
		Numbers	2	3	4	6	6	
		Typical Recharge Time	4 hours recover to 90% capacity					
	Long-run Model	Charging Current (max.)	1.0 A					
		Charging Voltage	27.4VDC ± 1%	41.0VDC ± 1%	54.7 VDC ±1%	82.1 VDC ±1%	82.1 VDC ±1%	
		Battery Type	Depending on applications					
Numbers	3			6		6		
Charging Current (max.)	1.0A/2.0A/4.0A/6.0 A							
Charging Voltage	41.0VDC ± 1%			82.1 VDC ±1%		82.1 VDC ±1%		
PHYSICAL	Standard Model	Dimension, D x W x H (mm)	282 x 145 x 220	397 x 145 x 220	397 x 145 x 220	421 x 190 x 318	421 x 190 x 318	
		Net Weight (kgs)	9.8	11.4	17	26.2	27.6	
	Long-run Model	Dimension, D x W x H (mm)	282 x 145 x 220			397 x 145 x 220		
		Net Weight (kgs)	4.4			6.8		7.6
ENVIRONMENT	Humidity	20-90 % RH @ 0- 40 °C (non-condensing)						
	Noise Level	Less than 50dBA @ 1 Meter						
MANAGEMENT	Smart RS-232/USB	Supports Windows 2000/2003/XP/Vista/2008/7/8, Linux, Unix, and MAC						
	Optional SNMP	Power management from SNMP manager and web browser						

\*1-3KVA: Derate to 70% of capacity in Frequency converter mode or when the output voltage is adjusted to 208VAC  
 Product specifications are subject to change without further notice