

TECHNICAL SPECIFICATION

Specifications	33 PFC Series	31 NL Series	11 NL PFC Series
UPS Rating KVA	10kva/15kva/ 20kva/ 30kva/ 40kva/ 60kva/ 80kva/ 100kva/ 120kva	6Kva/7.5Kva/10Kva/15Kva/20Kva/30Kva/40Kva	3Kva/5Kva/6Kva/7.5Kva
UPS Rating KW	8kw/12kw/ 16kw/ 24kw/ 32kw/ 48kw/ 64kw/ 80kw/ 96kw	4.8Kw/6Kw/8Kw/12Kw/16Kw/24Kw/32Kw	2.4Kw/4Kw/4.8Kw/6Kw
Input (Rectifier)	IGBT Based Rectifier	IGBT Based Rectifier	IGBT Based Rectifier
Nominal AC Input Voltage	3 Phase 415 V AC + Neutral + Earth	3 Phase 415 V AC + Neutral + Earth	230V, 1 Phase, 3 Wire
Line Low/High Range	415V, -15%, +15%	415V, -15%, +15%	230V, +/- 15%
Frequency Range	47 Hz to 53 Hz	47 Hz to 53 Hz	47 Hz to 53 Hz
Power Factor	≥ 0.9 @ Nominal input voltage	≥ 0.9	≥ 0.85
OUTPUT (INVERTER)	PWM Technology with IGBT Based	IGBT BASED PWM TECHNOLOGY	IGBT BASED PWM TECHNOLOGY
Nominal Voltage	400V AC Programmable	230V +/- 1%	230V +/- 1%
Load Regulation	± 1 %	± 1 %	± 1 %
Dynamic Voltage response	<2 Cycles	<2 Cycles	<2 Cycles
Load Power Factor	0.8 Lag to Unity	0.8 Lag to Unity	0.8 Lag to Unity
Frequency	50 Hz ± 0.5%	50 Hz ± 0.5%	50 Hz ± 0.5%
Waveform	Pure Sinewave	Pure Sinewave	Pure Sinewave
Harmonic Distortion	< 3% (Linear Load)/ ≤ 5% (Non-Linear Load)	<3% (Linear Load), <5% (Non-Linear Load)	<3% (Linear Load), <5% (Non-Linear Load)
Efficiency	>90%	>90%	>85%
Crest Factor	3:01	3:01	3:01
Inverter Overload Capacity	105% Continuous 110% for 10 Minutes	105% Continuous 110% for 10 Minutes	105% Continuous 110% for 10 Minutes
Isolation Transformer	Galvanic Isolation	Galvanic Isolation	Galvanic Isolation
Battery			
Battery Type	Sealed Maintenance Free Lead Acid, Lead Acid Tubular	Sealed Maintenance Free Lead Acid, Lead Acid Tubular	Sealed Maintenance Free Lead Acid, Lead Acid Tubular
Battery Rating	12 V DC/ 42 AH to 150 AH Any Rating	12 V DC/ 42 AH to 150 AH Any Rating	12 V DC/ 42 AH to 150 AH Any Rating
Charger	240V DC/ 360 VDC Bus Constant Voltage Constant Current	192V/240V/360 VDC Bus Constant Voltage Constant Current	72V/120V/144V/192V/240 VDC Bus Constant Voltage Constant Current
General			
Operating Temperature	0 Deg. to 45 Deg. C	0 Deg. to 45 Deg. C	0 Deg. to 45 Deg. C
Humidity	Up to 95% RH non-Condensing	Up to 95% RH non-Condensing	Up to 95% RH non-Condensing
Indication LED/LCD Display	Mains On, Mains Fail, Phase Fail, Inverter On, Charger on, Battery low, Battery discharge, Inverter normal	Mains On, Inverter On, Inverter Fault, Charger On, Battery Low, Battery discharge, Inverter Normal	Mains On, Inverter On, Inverter Fault, Charger On, Battery Low, Battery discharge, Inverter Normal
Audible Alarm	Low Battery pre-Alarm,	Low Battery pre-Alarm,	Low Battery pre Alarm , UPS over current, Mains on Mains fail, Inverter trip
UPS Protection	Advanced Electronic Protection for Input over Voltage, Under Voltage, Device Safety backed with MCBs, Soft Start Feature for Rectifier and Inverter, Battery Current Limiting Protection, built in over load protection, IGBT Short Circuit Protection for Rectifier and Inverter.	Advanced Electronic Protection for Input Over Voltage, Under Voltage, Input Over Current, Device Safety backed with MCBs, Soft Start feature for Rectifier and Inverter, Battery Current limiting Protection, built-in Overload Protection, IGBT short circuit Protection for Rectifier and Inverter.	Advanced Electronic Protection for Input Over Voltage, Under Voltage, Input Over Current, Device Safety backed with MCBs, Soft Start feature for Rectifier and Inverter, Battery Current limiting Protection, built-in Overload Protection, IGBT short circuit Protection for Rectifier and Inverter.
Acoustic Noise	<60dB @ 1 Mtr	<60dB @ 1 Mtr	<60dB @ 1 Mtr

Note: As standard specifications and design from time to time, please ask for confirmation of the information given in this publication