NOVA Series

1-10KVA



1K(L) 2K(L)/3KL 3K 6K/10K 6KL/10KL

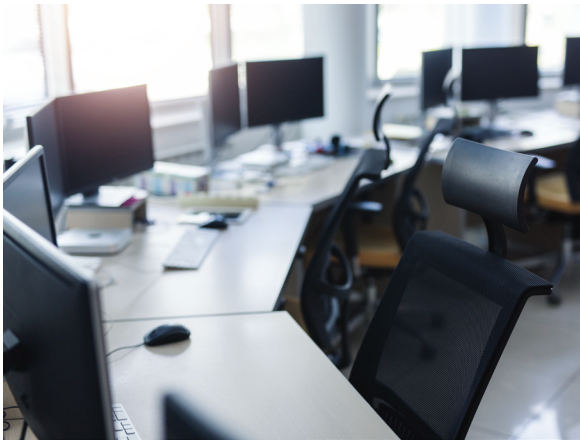
Double Conversion
High power density Online UPS

Performance

True double-conversion
Wide input voltage (110 V – 300 V)
Converter mode available
ECO mode for energy saving
(Only available for 1-3KVA)
Generator compatible
Adjustable battery number only available for 6K and up models
Smart SNMP works well with either USB or RS-232 together
Emergency power off function (EPO) only available for 6K/10K models

Ideal for protecting

Small Networks
Critical Servers
Other critical IT applications
Security equipment



VR 0001

Double Conversion High power density Online UPS

NOVA Series

1-10KVA

BARWELO

MODEL		NV-1K(L)	NV-2K(L)	NV-3K(L)	NV-6K(L)	NV-10K(L)
PHASE				Single phase with ground		
CAPACITY *		1000 VA / 800 W	2000 VA / 1600 W	3000 VA / 2400 W	6000VA / 6000W	10000 VA / 10000 W
INPUT						
Nominal Voltage		110/115/120/127VAC or 208/220/230/240VAC			208/220/230/240VAC	
Input Voltage Range		55-150 VAC or 110-300 VAC (Based on load at 50%) 85-140VAC or 160-280VAC (Based on load at 100%)			110~300VAC ± 3 % at 60% load ; 176~300VAC ± 3 % at 100% load	
Frequency Range		40 Hz ~ 70 Hz			46~54 Hz or 56~64 Hz 40 ~ 70 Hz (In generator mode)	
Power Factor		≧ 0.99 @ Nominall Voltage (100% load)			≧ 0.99 @ full load	
OUTPUT						
Output Voltage		110/115/120/127VAC or 208/220/230/240VAC			208/220/230/240VAC	
Voltage Regulation		± 1 %				
Frequency Range (Synchronized Range)		47~ 53 Hz or 57 ~ 63 Hz			46~54 Hz or 56~64 Hz	
Frequency Range (Batt. Mode)		50 Hz ± 0.25 Hz or 60Hz ± 0.3 Hz			50 Hz ± 0.1 Hz or 60 Hz ± 0.1 Hz	
Current Crest Ratio		3:1			3:1 (max.)	
Harmonic Distortion		≦ 3 % THD (Linear Load) ≦ 6 % THD (Non-linear Load)			≦ 1 % THD (Linear Load) ≦ 4 % THD (Non-linear Load)	
Transfer Time	AC Mode to Battery Mode	Zero				
	Inverter to Bypass	4 ms (Typical)			Zero	
Waveform (Batt. Mode)		Pure Sinewave				
EFFICIENCY						
AC Mode		88%	89%	90%	95%	95%
Battery Mode		83%	87%	88%	93%	93%
BATTERY						
Standard Model	Battery Type	12 V / 9 Ah	12 V / 9 Ah	12 V / 9 Ah	12 V / 7 Ah	12 V / 9 Ah
	Numbers	2	4	6	16	20
	Typical Recharge Time	4 hours recover to 90% capacity			7 hours recover to 90% capacity	9 hours recover to 90% capacity
	Charging Current (max.)	1 A			1 A ± 10% (Default)	
	Charging Voltage	27.4VDC ± 1%	54.7 VDC ±1%	82.1 VDC ±1%	218.4 VDC±1%	240VDC ±1%
Long-run Model **	Battery Type	Depending on applications			Sealed, lead-acid battery	
	Numbers	2	4	6	16-20**	
	Charging Current (max.)	1A/2A/4A/6A (Adjustable)			2A ± 10% (Default) 1A/2A/4A/6A/8A adjustable	
	Charging Voltage	27.4VDC±1%	54.7 VDC ±1%	82.1 VDC ±1%	(13.65VDC x battery number) ± 1%	
INDICATORS						
LCD		Load level, Battery level, AC mode, Battery mode, Bypass mode, and Fault indicators				
ALARM						
Battery Mode		Sounding every 4 seconds				
Low Battery		Sounding every second				
Overload		Sounding twice every second				
Fault		Continuously sounding				
PHYSICAL						
Standard Model	Dimension, D x W x H (mm)	282x145 x220	397 x 145 x 220	421 x 190 x 318	369 x 190 x 688	442 x 190 x 688
	Net Weight (kgs)	9.8	17	27.6	55	74
Long-run Model **	Dimension, D x W x H (mm)	282 x 145 x 220	397 x 145 x 220		369 x 190 x 337	
	Net Weight (kgs)	4.1	6.8	7.4	14	15
ENVIRONMENT						
Humidity		20-90 % RH @ 0- 40°C (Non-condensing)			0-95% RH @ 0-40°C (non-condensing)	
Noise Level		Less than 50dB @ 1 Meter			Less than 55dB @ 1 Meter	Less than 58dB @ 1 Meter
MANAGEMENT						
Smart RS-232 / USB		Supports Windows® 2000/2003/XP/Vista/2008, Windows® 7/8/10, Linux 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
6-10KVA: Derate to 60% of capacity in Frequency converter mode and to 90% when the output voltage is adjusted to 208VAC
**Long-run model is only available in 208/220/230/240VAC systems.
Product specifications are subject to change without further notice.

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