

AN APPEALING SOURCE FOR SMOOTH & BACKUP POWER REQUIREMENTS



60* Months Warranty (36+24)

Inverter/UPS/Batteries (Tubular & SMF)

- Electrical performances conform to IS
- Reduced top up frequency
- Corrosion resistant special alloy for spines & grids
- Rugged polypropylene heat sealed and vibration resistant casing
- We High puncture resistant PE Separators to prevent internal shorting

- Quick Charging
- Long Back up and Long Life
- Higher number of deep discharge cycles
- Withstand frequent power cuts with low maintenance
- Extra strong gauntlets for high performance

Applications

- Online / Offline UPS Hospitals, Banks
 - Solar Systems Ongrid / Offgrid Solar System

SPECIAL FEATURES

Extra heavy duty tubular plates as per exclusive VEGAS Design ensuring durability, resistance to corrosion and inbuilt margins for high ambient temperatures and vibrations.



VOLTRONIC

VOLTRONIC batteries are assembled with tubular positive and negative plates made of special alloy. Strong, P-P container construction.

They are provided with transparent sealed float indicators micro porous Aqua trap vent plugs, which allow generated gases to escape and trap water particles, returning the major portion to the electrolyte. this reduces the frequency of toping up. With extra electrolyte head and proper voltage control, the frequency of topping up will be 4 times in a year.

BATTERY PARAMETERS

- Charging Condition: A) Float charging voltage range 13.5V-13.8V B) Cyclic charging voltage range 14.5V-15.5V.
- Charging current 10% of the battery capacity. Under voltage cutoff setting -10.5V.
- © Electrolyte specific gravity at end of full Charge: 1.240+/-0.005.

TECHNICAL SPECIFICATION

SL.	BATTERY	MODEL	NOMINAL VOLTAGE	CAPACITY	BATTERY DIMENSION(APPROX+/-5MM)				
NO.	TYPE			CAPACITY	LENGTH	WIDTH	HEIGHT	WEIGHT	
	INVATALL TUBULAR BATTERIES								
01	INVATALL	GPH12100	12 VOLT	100 AH	502	190	415	53	
02	INVATALL	GPH12120	12 VOLT	120 AH	502	190	415	55	
03	INVATALL	GPH12150	12 VOLT	150 AH	502	190	415	60	
04	INVATALL	GPH12180	12 VOLT	180 AH	502	190	415	63	
05	INVATALL	GPH12200	12 VOLT	200 AH	502	190	415	65	

NOTE: Ensure that the temp. of the electrolyte during charging does not exceed 55° C. if it exceed, reduce the charging current or discontinue charging & resume charging the temperature comes down to 45° C.

Manufacture / Marketed by

Voltronic Technologies Pvt. Ltd.

H.O: Rakavis Square, 4th Floor, 8 Sowripalayam Road, Rahman Sait Colony,

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Website: www.voltronictechnologies.com



EA900Pro

 $1 \text{ kVA} \sim 3 \text{ kVA} (1:1)$

PF 0.9



Features

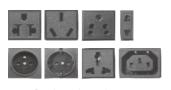
- High frequency on-line double conversion technology
- DSP (Digital signal processors) control technology
- Active power factor correction (APFC), input power factor up to 0.99
- Output power factor 0.9
- Wide input voltage range (110 V ~ 300 Vac) and frequency range (40 ~ 70 Hz)
- Auto sensing frequency
- 50 / 60 Hz frequency conversion
- Cold start
- Rear ventilation design and variable speed fan
- Effective software and hardware protection
- Quick and stable charging, 90% capacity restored in 3 h (standard model UPS)

- Linear derating in low voltage input reducing battery discharging times
- Settable delayed start when power is restored
- Advanced battery management (ABM)
- Multiple functions settable via LCD: output voltage, EOD, auto-start, bypass mode, ECO mode and frequency conversion mode
- Multi-platform communications: RS232 (standard), USB / RS485 / SNMP / dry contacts (optional)

Available Options

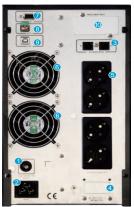
• Optional USB, RS485 card, AS400 dry contacts, SNMP card, SMS alarms, EPO function, and 12 A charger (2-3 kVA only)

- 1. Overcurrent Protection
- 2. AC Input
- 3. Modem/Tel/Fax
- 4. DC Input
- 5. Outlet
- 6. Fan
- 7. RS232
- 8. USB (optional) 9. EPO (optional)
- 10. SNMP/AS400 (optional)



Optional sockets





Online Transformerless UPS

Specifications

MODEL	EA9	01PS	EA901PH	EA90	2PS	EA902PH	EA9	003PS	EA903PH	
Capacity	1 kVA / 900 W		2	kVA / 1800	W	3 kVA / 2700 W		W		
INPUT					<u> </u>					
Rated voltage		208 V / 220 V / 230 V / 240 Vac								
Voltage range	110 ~ 176 Va	$0 \sim 176 \text{Vac}$ (linear derating between 50% and 100% load); $176 \sim 280 \text{Vac}$ (no derating); $280 \sim 300 \text{Vac}$ (derating)								
Frequency		40 ~ 70 Hz (auto-sense)								
Power factor		≥ 0.99								
Bypass voltage range		- 25% ~ +15% (settable)								
OUTPUT										
Voltage			208 V /	220 V / 230	V / 240 Vac	(settable v	ia LCD)			
Voltage regulation					± 1%					
Frequency	4	5 ~ 55 Hz o	r 55 ~ 65 Hz	(synchroni	zed range)	; 50 / 60 Hz	± 0.1 Hz (b	attery mod	e)	
Waveform					Sinusoidal	<u> </u>			,	
Crest factor					3:1					
Harmonic distortion			≤ 29	% (linear loa	ıd); ≤ 5% (ı	non-linear	load)			
				Mains mode	e to battery	mode: 0 ms	 S			
Transfer time			Invert	ter mode to	bypass mo	de: 4 ms (ty	pical)			
Overload		Inverter mode to bypass mode: 4 ms (typical) 105% ~ 125% for 1 min, 125% ~ 150% for 30 s, > 150% for 300 ms								
EFFICIENCY			,0 120,011		3,0 100,0	101 00 0, 1		<u> </u>		
Mains mode		≥ 90%			≥ 91%			≥ 92%		
Battery mode		≥ 85%			≥ 86%			≥ 87%		
ECO mode	≥ 95% ≥ 96%					≥ 97%				
BATTERIES										
DC voltage	24 V	36 V	36 V	48 V	72 V	72 V	72 V	96 V	96 V	
Inbuilt battery	2 × 9 Ah	3 × 7 Ah	/	4 × 9 Ah	6 × 7 Ah	/	6 × 9 Ah	8 × 7 Ah	/	
Charging current (max.)		A	6 A			6 A	1 A		6 A	
Recharge time	1A 6A 1A 6A 1A 8h									
ALARMS					011					
Utility failure					4 s per b	eep				
Low battery	1 s per beep									
Overload	1 s twice beep									
UPS fault	Long beep									
OTHERS						- 1-				
Communications				ndard) USP		dry contacts	:/SNMP (or	ntional)		
Operating temperature	RS232 (standard), USB / RS485 / dry contacts / SNMP (optional)									
Relative Humidity	0 ~ 45°C 0 ~ 90% (non-condensing)									
Noise level	0 ~ 90% (non-condensing) ≤ 50 dB (1 m)									
Dimensions $(W \times D \times H)$ (mm)	144 × 336 × 214	144 × 414 × 214	144 × 336 × 214	191 × 418 × 335					191 × 418 × 335	
Packaged dimensions (W × D × H) (mm)	232 × 417 × 318	230 × 492 × 320	232 × 417 × 318				318 × 533 × 471			
Net weight (kg)	9.5	13	6	18	25.8	10.5	27.2	32	11	
Gross weight (kg)	10.5	14.2	7	19.5	27.4	12	29	34	12.5	

[•] Derate capacity to 70% in CUCF mode and to 90% when the output voltage is adjusted to 208 Vac.

S means standard model, H means long time model.

- All specifications subject to change without notice.
- $\bullet {\tt Custom-made\ specifications\ are\ acceptable}.$

A Product of

Voltronic Technologies Pvt. Ltd.

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THE SIGN OF TECHNOLOGY

EA900G4

 $6 \text{ kVA} \sim 20 \text{ kVA} (1:1)$ PF 1.0



Features

- Advanced DSP (Digital signal processors) technology
- Variable speed fan
- Effective software and hardware protection function, robust selfdiagnostic function, and abundant event log for check
- Advanced digital parallel technology
- Wide input voltage range, 50 / 60 Hz frequency auto sensing
- Linear derating in low voltage input reducing battery discharging times, extending the service life of battery
- Dual-input design, supporting independent bypass
- Output power factor improved from 0.9 to 1, load capacity increased by 13%
- Flexible battery configuration (settable 16 20 pcs batteries)
- Charging voltage and current configured by demands
- Ability to switch on the UPS with batteries
- Settable delayed start time when mains power is restored, reducing the impact on power grid or generator
- Two modes of frequency conversion: 50 Hz input / 60 Hz output or 60 Hz input / 50 Hz output

Available Options

RS232 and smart card slot included

• Equipped with self-aging function

machine interface

footprint

• Optional parallel function, battery temperature compensation, SNMP card, USB, RS485 card, dry contacts, EMD, and SMS alarms

• LCD+LED display, multi-functional keys operation, friendly human-

Powerful background software for parameters configuration

and dry contacts communication interfaces

• High efficiency 95% (up to 98% in ECO mode)

• Compact internal layout, miniaturized the complete unit for small

Advanced multi-platform communications: RS232, USB, RS485, SNMP

• Intelligent battery management, automatic floating / equalizing charge

control, charger dormancy control, increasing battery life by 50%

• Active power factor correction (APFC), input power factor up to 0.99

- 1. RS232
- 2. EPO
- 3. Parallel port (optional)
- 4. USB (optional)
- 5. Temperature detection (optional)
- 6. SNMP (optional)
- 7. Reserved: for customer function such as manual bypass, battery breaker, socket ect.
- 8. Fans
- 9. Bypass breaker
- 10. Input breaker
- 12.Terminals and terminal cover







6 kH/10 kH

15 kH / 20 kH

6 kS / 10 kS

Specifications

MODEL	6 kVA	10 kVA	15 kVA	20 kVA						
Capacity	6 kVA / 6000 W	10 kVA / 10000 W	15 kVA / 15000 W	20 kVA / 20000 W						
INPUT				<u>'</u>						
Input wiring		Single-phase three	-wire (1Φ + N + PE)							
Rated voltage	208 V / 220 V / 230 V / 240 Vac									
Voltage range	110 ~ 176 Vac (linear derating between 50% and 100% load); 176 ~ 288 Vac (no derating)									
Rated frequency		50 / 60 Hz (auto-sensing)								
Frequency range		40 ~ 7								
Power factor		≥ 0								
Bypass voltage range		- 40% ~ +15	% (settable)							
Total harmonic distortion (THDI)		€ 5	5%							
OUTPUT										
Output wiring		Single-phase three	-wire (1Φ + N + PE)							
Rated voltage		208 V (PF=0.9) / 220								
Voltage regulation		± -								
Frequency	Synchronize			hattery mode						
Waveform	Synchronized to bypass in mains mode; 50 / 60 Hz ± 0.1% Hz in battery mode Sinusoidal									
Power factor		1								
	- 19/ (linear lead)			20/ / 1' 1 1						
Total harmonic distortion (THDV)	≤ 1% (linear load); ≤		≤ 1% (linear load); ≤ 3	3% (non-linear load)						
Crest factor	3:1									
Overload capability	102% ~ 1	10% for 10 min, 110% ~ 12	25% for 1 min,125% ~ 150	% for 30 s						
BATTERIES										
DC voltage		192 Vdc (192 / 2	40 Vdc settable)							
Number of battery		16 pcs (16 ~	20 settable)							
Inbuilt battery (standard model)	12/7 Ah × 16	12/9 Ah × 16	/	/						
	Standard model: 1 A;									
Charging current	Long time model: 5 A (default), 1 ~ 5 A settable;									
	12 A (6–10 kVA optional); 10 A (15–20 kVA optional)									
Recharge time	Standard model: 90% capacity restored in 8 hours; Long time model: depend on the capacity of battery									
SYSTEM		Long time model, depond	on the capacity of battery							
Efficiency	≥ 94%	at 100% load max 95% a	t 60% load: ≥ 98% in EC0) mode						
Switching time	≥ 94% at 100% load, max. 95% at 60% load; ≥ 98% in ECO mode 0 ms									
	Short-circuit, overload, overtemperature, battery low voltage, overvoltage, undervoltage and fan failu									
Protections	Short-circuit, overload			ervoltage and farrialitie						
Max. number of parallel connections										
Communications	RS232 (standard), USB / RS485 / dry contacts / SNMP / battery temperature compensation (opt									
Display		LCD +	+ LED							
OTHERS										
Operating temperature		0°C ~	45 ℃							
Storage temperature	-25°C ~ 55°C (without battery)									
Humidity	0 ~ 95% (non-condensing)									
Altitude	≤ 1000 m, derating 1% for each additional 100 m									
IP rating	IP 20									
Noise level at 1 m	≤ 55 dB ≤ 58 dB									
Dimensions (W \times D \times H) (mm)	191 × 465 × 711 (S) 191 × 465 × 350 (H)	191 × 495 × 711 (S) 191 × 495 × 350 (H)	191 × 495	5 × 515 (H)						
Packaged dimensions	654 × 310 × 941 (S)	685 × 310 × 941 (S)	===	- 040 (11)						
$(W \times D \times H) (mm)$	595 × 318 × 475 (H)	617 × 318 × 475 (H)	593 × 285	5 × 618 (H)						
Net weight (kg)	53 (S)	62 (S)	26.	5 (H)						
	14.5 (H) 61 (S)	16.5 (H) 70 (S)								
		7(1)(C)								

<sup>S means standard model; H means long time model.
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THE SIGN OF TECHNOLOGY

EA900G4

 $6 \text{ kVA} \sim 20 \text{ kVA} (3:1)$ PF 1.0



Features

- Advanced DSP (Digital signal processors) technology
- Variable speed fan
- Effective software and hardware protection function, robust selfdiagnostic function, and abundant event log for check
- Advanced digital parallel technology
- Wide input voltage range, 50 / 60 Hz frequency auto sensing
- Linear derating in low voltage input reducing battery discharging times, extending the service life of battery
- Dual-input design, supporting independent bypass
- Output power factor improved from 0.9 to 1, load capacity increased by 13%
- Flexible battery configuration (settable 16 20 pcs batteries)
- Charging voltage and current configured by demands
- Ability to switch on the UPS with batteries
- Settable delayed start time when mains power is restored, reducing the impact on power grid or generator
- Two modes of frequency conversion: 50 Hz input / 60 Hz output or 60 Hz input / 50 Hz output

- LCD+LED display, multi-functional keys operation, friendly humanmachine interface
- Powerful background software for parameters configuration
- Compact internal layout, miniaturized the complete unit for small
- Advanced multi-platform communications: RS232, USB, RS485, SNMP and dry contacts communication interfaces
- Intelligent battery management, automatic floating / equalizing charge control, charger dormancy control, increasing battery life by 50%
- Active power factor correction (APFC), input power factor up to 0.99
- High efficiency 95% (up to 98% in ECO mode)
- Equipped with self-aging function

Available Options

- RS232 and smart card slot included
- Optional parallel function, battery temperature compensation, SNMP card, USB, RS485 card, dry contacts, EMD, and SMS alarms

- 1 BS232
- 2. EPO
- 3. Parallel port (optional)
- 4. USB (optional)
- 5. Temperature detection (optional)
- 6. SNMP (optional)
- 7. Reserved: for customer function such as manual bypass, battery breaker, socket ect.
- 9. Bypass breaker
- 10. Input breaker
- 11.GND
- 12. Terminals and terminal cover







6 kH /10 kH 15 kH /20 kH

6 kS /10 kS

Specifications

MODEL	6 kVA	10 kVA	15 kVA	20 kVA				
Capacity	6 kVA / 6000 W	10 kVA / 10000 W	15 kVA / 15000 W	20 kVA / 20000 W				
INPUT								
Input wiring		Three-phase five-	wire (3Φ + N + PE)					
Rated voltage		380 V / 400 V / 415 Vac						
Voltage range		~ 305 Vac (linear derating ~ 499 Vac (no derating)	between 50% and 100% lo	oad);				
Rated frequency		50 / 60 Hz (au	ıto-sensing)					
Frequency range		40 ~ 7	70 Hz					
Power factor		≥ 0	.99					
Bypass voltage range		- 40% ~ +15	% (settable)					
Total harmonic distortion (THDI)		≤ 5	5%					
OUTPUT								
Output wiring		Single-phase three	-wire (1Φ + N + PE)					
Rated voltage		208 V (PF=0.9) / 220	V / 230 V / 240 Vac					
Voltage regulation		± -	1%					
Frequency	Synchronize	d to bypass in mains mode	; 50 / 60 Hz ± 0.1% Hz in	battery mode				
Waveform		Sinus	oidal					
Power factor		1						
Total harmonic distortion (THDV)		≤ 1% (linear load); ≤	3% (non-linear load)					
Crest factor		3:1						
Overload capability	102% ~ 110% for 10 min, 110% ~ 125% for 1 min, 125% ~ 150% for 30 s							
BATTERIES		·	·					
DC voltage		192 Vdc (192 / 2	40 Vdc settable)					
Number of battery	16 pcs (16 ~ 20 settable)							
Inbuilt battery (standard model)	12 / 7 Ah × 16	12/9 Ah × 16	/	/				
Charging ourrent			model: 1 A;					
Charging current	Long time model: 5 A (default), 1 ~ 5 A settable; 10 A (optional)							
Recharge time	Standard model: 90% capacity restored in 8 hours; Long time model: depend on the capacity of battery							
SYSTEM								
Efficiency	≥ 94% at 100% load, max. 95% at 60% load, ≥ 98% in ECO mode							
Switching time	0 ms							
Protections	Short-circuit, overload, overtemperature, battery low voltage, overvoltage, undervoltage and fan fai							
Max. number of parallel connections	4							
Communications								
Display	RS232 (standard), USB / RS485 / dry contacts / SNMP / battery temperature compensation (opti							
OTHERS		LCD -	FLED					
		600	45.90					
Operating temperature		0°C ~						
Storage temperature Humidity	-25° C ~ 55° C (without battery)							
	0 ~ 95% (non-condensing)							
Altitude	≤ 1000 m, derating 1% for each additional 100 m							
IP rating	IP 20							
Noise level at 1 m	≤ 58 dB 191 × 495 × 711 (S)							
Dimensions (W \times D \times H) (mm)	191 × 495	× 350 (H)	191 × 495 × 515 (H)					
Packaged dimensions	685 × 310	× 941 (S)	593 × 285 × 618 (H)					
$(W \times D \times H) (mm)$	617 × 318 × 475 (H)							
Net weight (kg)	58.5 (S) 18.5 (H)	64 (S) 18.5 (H)	26.5 (H)					
Gross weight (kg)	66.5 (S) 20 (H)	72 (S) 20 (H)	28 (H)					
		V 7	1					

<sup>S means standard model; H means long time model.
All specifications are subject to change without notice.</sup>

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THE SIGN OF TECHNOLOGY

EA900Pro

 $10 \text{ kVA} \sim 30 \text{ kVA} (3:3)$

PF 0.9



Features

- DSP digital control technology
- Active power factor correction (APFC), input power factor up to 0.99
- Output power factor 0.9
- Cold start
- Dual input
- Wide input voltage range (190 V ~ 485 V)
- Auto sensing frequency
- 50 / 60 Hz frequency conversion mode
- Work efficiency up to 98% in ECO mode
- Auto control fan speed when loads varies
- Auto power ON/OFF according to the load capacity set by users
- Flexible battery configuration for using 14/16/18/20 pcs batteries
- Compact internal layout, miniaturized the complete unit for small footprint
- LCD+LED display, multi-functional keys operation, friendly human-machine interface
- Powerful background software for parameters configuration and online updating

- Doubling the battery charging speed, 90% capacity restored in 4 hours (standard model UPS)
- Linear derating in low voltage input, reducing battery discharging times, extending the service life of battery
- Advanced battery management (ABM), automatic floating / equalizing charge control, charger dormancy control
- Configurable switching time from battery mode to mains mode when mains power is restored, reducing the impact on power arid or generator
- Effective software and hardware protection function, powerful self-diagnostic function, abundant historical records
- Standard emergency power off (EPO)
- Standard maintenance bypass
- Standard RS232/USB communication port
- Optional RS485 / SNMP / AS400 communication port and SMS alarms
- Optional N+X redundancy parallel up to 6 units
- Optional battery temperature compensation, EMD environmental

- 1. Mains Input
- 2. DC Input
- 3. Bypass Input
- 4. Output
- 5. Mains Input Breaker
- 6. Bypass Input Breaker
- 7. Maintenance Bypass
- 8. Fan
- 9. RS232
- 10. USB
- 11 FPO
- 12. Battery Temperature Compensation (Optional)
- 13. Intelligent Slot 1 (SNMP / AS400 / RS485 Optional)
- 14. Intelligent Slot 2 (Optional)
- 15. Parallel Card (optional)
- 16. Battery Breaker









Specifications

MODEL	EA9010P	EA9015P	EA9020P	EA9030P						
Capacity	10 kVA / 9 kW	15 kVA / 13.5 kW	20 kVA / 18 kW	30 kVA / 27 kW						
INPUT										
Rated voltage		360 V / 380	0 V / 400 V / 415 Vac							
	277 ~ 485 Vac (no derating);									
Voltage range	190 ~ 277 Vac (linear derating between 50% and 100% load)									
Rated frequency			Hz (auto-sense)	,						
Frequency range			10 ~ 70 Hz							
Power factor		≥ 0.99								
Total harmonic distortion (THDI)			≤ 5%							
Bypass voltage range		- 40% ~	+ 15% (settable)							
OUTPUT		1070	1 10 % (00114510)							
/oltage		360 \/ / 380 \/ / 4	00 V / 415 Vac (settable)							
Voltage regulation		300 V / 300 V / 4	± 1%							
requency	45 55 Hz or	EE GE Ha (ovnobronia		Uz (battary mada)						
<u> </u>	45 ~ 55 HZ 01	· · ·	ed range); 50 / 60 Hz ± 0.1	HZ (ballery mode)						
Vaveform Proof factor			Sinusoidal							
Crest factor		- 00/ /!!	3:1							
otal harmonic distortion (THDV)		· · · · · · · · · · · · · · · · · · ·	d); ≤ 5% (non-linear load)							
ransfer time	Mains m		ms; Inverter mode to bypas							
			nsfer to bypass in 10 mins;							
nverter overload capability		125% ~ 150%: tr	ansfer to bypass in 1 min;							
	> 150%: transfer to bypass in 0.5 s									
	102% ~ 125%: shut down in 20 mins;									
Bypass overload capability	125% ~ 150%: shut down in 2 mins;									
	> 150%: shut down in 1 s									
BATTERIES										
DC voltage	Standard model:	240 Vdc; Long time mo	del: 192 Vdc (168V / 192V /	⁷ 216V / 240V optional						
nbuilt battery of standard model	20 × 7 Ah	40 × 7 Ah	40 × 9 Ah	60 × 9 Ah						
Charging current			plied (additional 7 A is option 1 A, 2 A, 3.5 A settable	al)						
Recharge time	Standard model: 90% o	capacity restored in 4 hou	ırs; Long time model: depend	on the capacity of batte						
SYSTEM		· · · ·								
Efficiency		≥ 93%,	ECO mode 98%							
Display	LCD + LED									
Alarm		Battery mode, low battery, fans fault etc.								
Max. parallel numbers		Dattory mode, it	6							
Communications	RS232 / USB (standard), RS485 / dry contacts / SNMP (optional)									
EMI	1102		/EN62040-2	(= = = =						
			000-4-2 (ESD)							
			. ,							
EMS			1000-4-3 (RS)							
	IEC61000-4-4 (EFT) IEC61000-4-5 (surge)									
OTHERS		IECOTO	(surge)							
		20 000/ 011@0	40°C (non_oandons:==)							
Humidity	20 ~ 90% RH @ 0 ~ 40°C (non-condensing)									
Noise level	≤ 60 dB (1 m) ≤ 65 dB (1 m)									
Dimensions (W \times D \times H) (mm)	350 × 655 × 732 (H)									
. , , ,	350 × 785 × 858 (S) 350 × 785 × 1078 (S)									
Packaged dimensions (W $ imes$ D $ imes$ H) (mm)		472 × 780 × 920 (H)								
	472 × 910 × 1050 (S)		472 × 910 × 1260 (S)							
Net weight (kg)	55 (H), 115 (S)	60 (H), 155 (S)	61 (H), 175 (S)	65 (H), 235 (S)						
Net Weight (kg)	1 1 1									

Derate capacity to 90% when the output voltage is adjusted to 360 Vac.
 S means standard model, H means long time model.

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