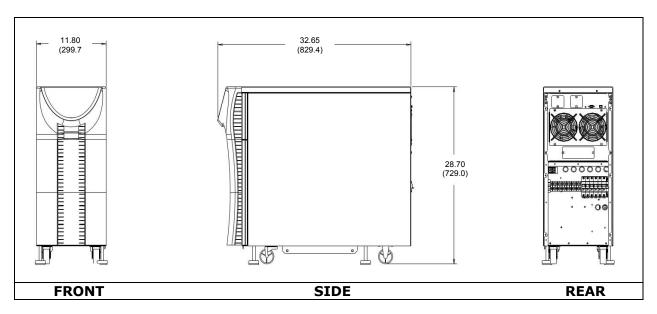


## SPECIFICATIONS



	Model	ABCDEF4000-22							
	Topology	True On-Line, Double-Conversation, IGBT Design, Internal Isolation Transformer							
INPUT	Voltage (VAC)	200	208	220	230	240			
	Voltage Range (VAC)	140-230	146-239	154-253	161-264	168-276			
	Voltage Tolerance	+ 15% ~ -30% before switching to batteries							
	Frequency (Hz)	50/60							
	Frequency Tolerance	42 Hz to 69 Hz before switching to batteries							
	Input PF	> 0.95							
	Input Current THD	< 5.0%							
	Input Connection	Hardwired Standard; Line Cord Optional (Consult factory)							
	Input Capacity	4320 VA							
	Capacity	4000VA/ 3600W							
	Voltage (VAC)	200	120/208/240	220	230	120/208/240			
	Voltage Regulation	± 3.0% Max, ± 1.0% Normal							
	Output Voltage THD	< 3.0%							
	Power Factor	0.9							
	Step Load Response	± 4.0% for 50% step load change							
		± 6.0% for 100% step load change							
OUTPUT		Return to ±3.0% of nominal within 3 cycles							
	Crest Factor	3:1							
	Frequency (Hz)	50/60							
	Frequency Regulation	± 0.1Hz							
	Overload	125% for 2 minutes							
		150% for 30 seconds							
		300% for 500ms							
	Efficiency	AC-AC >85.0%							
		DC-AC >78.0%							
	Common Mode Noise	< 0.5 VRMS							
	Output Connection	Hardwired Standard; Output Receptacles Optional (Consult factory)							
						T			
BYPASS	Input Voltage (VAC)	200	208	220	230	240			
	Output Voltage (VAC)	200	120/208/240	220	230	120/208/240			
	Transformer Voltage	± 3.0%							
	Regulation								
¥	Overload	125% for 10 minutes							
В		150% for 500ms							
		1000% for 1 cycle							
	Efficiency	> 95.0%							



## SPECIFICATIONS

	Voltage (VDC)	96.0, nominal			
	vollago (v.b.o)	109.2, float			
≿	Battery	12V, 34W flame retardant			
BATTERY	,	High Rate, Sealed Lead-Acid			
E	Quantity	16			
BA	Charge Current (ADC)	3.0			
_	Backup Time (min)	> 8.0			
	Recharge Time	8 Hours to 90%			
	Temperature (°C)	0 to 40, operating			
E		-20 to 60, transit			
불	Altitude (m)	2,000, operating			
Ž		12,000, transit			
8	Humidity	5.0% to 90.0%, non condensing			
ENVIRONMENT	Audible (dBA)	50-55 @ 1m from front of unit			
Ē	Heat Dissipation (BTU/hr)	3252			
	I =				
	EMC FCC Part 15J Class A				
		EN 55022 Class A/ CISPR 22			
		EN 50091-2 IEC 61000-3-2			
	Safety Agencies	UL1778 4 <sup>th</sup> Ed.			
	Salety Agencies	cUL to CSA22.2 No.107.1			
Si		CE:			
3		IEC62040, w/CB report and certificate			
AGENCIES		IEC61000-4-2, Electrostatic Discharge			
ত্		IEC61000-4-3, Radiated Electromagnetic Field Immunity			
٩		IEC61000-4-4, Electrical Fast Transient/ Burst Immunity			
		IEC61000-4-5, Surge Immunity			
		IEC61000-4-6, Immunity to Conducted Radio Frequency Disturbances			
		IEC61000-4-8, Power Frequency Magnetic Field Immunity			
		IEC61000-4-11, Voltage Dips, Short Interruptions, and Voltage Variations			
	RoHS	All units are RoHS compliant			
	Communication	RS-232			
		USB DB 0 Dry Contacts			
~		DB-9 Dry Contacts Internal SNMP Adapter (option)			
отнек		Internal Sivivir Adapter (option)			
₽					
0	Unit Weight	317 lbs / 1/3 kg			
	Shipping Weight	317 lbs. / 143 kg. 412 lbs. / 185 kg.			
	Plug & Receptacle*	L6-30P (2)5-20R (1)L6-30R			
*Hordy		peptacle is optional. Contact factory for part numbers.			

<sup>\*</sup>Hardwire 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 usec risetime, 100 kHZ decay, Cat. B - 6000V @ 500 amps, 0.5 usec risetime, 100 kHZ decay.



## SPECIFICATIONS

Compatible External (Extended Run) Battery Cabinets:

Model: D9632-22 Description: 4 Pack (32 Batt) Extended Run Battery Cabinet Model: D9648-22 Description: 6 Pack (48 Batt) Extended Run Battery Cabinet

ABCDEF4000-22 TYPICAL RUN-TIMES (MINs)							
	25% (900 W)	50% (1800 W)	75% (2700 W)	100% (3600 W)			
Internal Batteries Only	25	17	11	8			
Internal + 1) D9632-22	120	75	50	35			
Internal + 2) D9632-22	250	150	100	75			
Internal + 3) D9632-22	375	220	150	110			
Internal + 4) D9632-22	550	325	210	160			
Internal + 5) D9632-22	>12 Hrs	425	275	210			
Internal + 1) D9648-22	170	110	75	55			
Internal + 2) D9648-22	375	220	150	120			
Internal + 3) D9648-22	625	375	250	185			
Internal + 4) D9648-22	>12 Hrs	525	350	275			
Internal + 5) D9648-22	>12 Hrs	>12 Hrs	475	350			

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

Battery Life Disclaimer: POWERVAR's standard battery warranty applies only to UPS and UPM products which are continuously connected to AC mains power, except during utility power outages. Products which are regularly and intentionally disconnected from AC mains power will experience battery discharge/charge cycles potentially far more numerous than those for which the battery was designed. As a result, products used in such applications will experience substantially reduced battery life. For that reason, POWERVAR's standard battery warranty does not apply for applications in which the UPS or UPM product is regularly and intentionally disconnected from AC mains power. POWERVAR UPS and UPM products used in such applications shall receive a 90 day warranty on batteries.

**Warranty/Support:** POWERVAR warrants the electronics and transformers 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. Batteries are warranted for a period of two years from the date of shipment for standby use; 90 days for cyclic use. For North American service or support on any POWERVAR product, please contact POWERVAR Technical Support at (800) 369-7179 (in Illinois call (847-596-7000). For service and support in EMEA, contact POWERVAR, Ltd. in the United Kingdom at +44 (0) 1793 553980. Or visit the POWERVAR website at **www.powervar.com**.

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