

UNINTERRUPTIBLE POWER SUPPLY (UPS)



Image shown may not reflect actual product.

TYPE 490 BATTERY CABINET

60 Hz UPS

Caterpillar is leading the power generation marketplace with Power Solutions engineered to deliver unmatched flexibility, expandability, reliability, and cost effectiveness.

FEATURES

PRODUCT FEATURES

- Batteries installed in matching cabinet(s), available in adjacent or stand alone versions
- Front accessible
- 36 batteries per cabinet
- Adjacent cabinets are provided without side panels for line-up adjacent to UPS cabinet

Battery Features

- 10 year design life @ 25°C
- Absorbent Glass Mat (AGM) technology for efficient gas recombination of up to 99% and freedom from electrolyte maintenance.
- Long Life Alloy having the lowest calcium levels in the industry - minimizing grid growth, reducing gassing, and extending battery life.

- UL Recognized Flame arresting vents in each cell for safety and long life.
- Flame retardant polypropylene case and cover compliant with UL 1778
- Thermally welded case-to-cover bond to eliminate leakage.
- Can be operated in any orientation. Upright, side or end mounting recommended.
- Not restricted for air transport - Complies with IATA/ICAO Special Provisions A67.
- Not restricted for surface transport - Classified as non-hazardous material as related to DOT-CFR Title 49 parts 171-189.
- Not restricted for water transport - Classified as non-hazardous material per IMDG Amendment 27.

BATTERY SPECIFICATIONS

Operating Temperature Range with temperature compensation	Discharge: -40°F (-40°C) to +160°F (71°C) Charge: -10°F (-23°C) to +140°F (60°C)
Nominal Operating Temperature Range	+74°F (23°C) to +80°F (27°C)
Recommended Maximum Charging Current Limit	C/5 amperes @ 20hr rate
Float Charging Voltage	13.65 ± 0.15 VDC average per 12V unit (6.75 to 6.90 per 6V unit)
Self Discharge	Battery can be stored up to 6 months at 77°F (25°C) before a freshening charge is required. Batteries stored at temperatures greater than 77°F (25°C) will require recharge sooner than batteries stored at lower temperatures.
Equalize charge and cycle service voltage	14.40 to 14.80 VDC average per 12V unit @ 77°F (25°C) (7.20 to 7.40 VDC per 6V unit.)
Terminal: Inserted	Threaded copper alloy insert terminal to accept 1/4-20 UNC bolt
Terminal Hardware Initial Torque: Inserted Terminal	110 in.-lbs. (12.4 N-m)

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RIDE THROUGH TIME

60 Hz	40kVA	50kVA	60kVA	80kVA	100kVA	130kVA
1 Cabinet	61'	46'	38'	25'	17'	11'
2 Cabinet	129'	103'	81'	61'	47'	34'
3 Cabinet	191'	162'	129'	95'	77'	55'
4 Cabinet	270'	207'	184'	129'	104'	79'

Watts per Cell @ 77°F (25°C)								
Operating time (in minutes) to 1.67 Volts per Cell								
Minutes	5	10	15	20	30	40	50	60
Watts	773	590	488	412	317	256	218	189

BATTERY DETAILS

							Battery Termination	
							UPS12-490MR	
	A	B	C	D	E	F		
UPS12-490MR	13.57 (344.7)	12.74 (323.6)	6.80 (172.7)	6.63 (168.4)	10.81 (274.5)	10.93 (277.7)		

CABINET DIMENSIONS

Adjacent Cabinet Dimension		
Length	32.8 in	831.9 mm
Width	48.2 in	1225.3 mm
Height	75 in	1905 mm
Weight	4120 lbs	1868.8 kg

Free Standing Cabinet Dimensions		
Length	32.8 in	831.9 mm
Width	33.5 in	850.4 mm
Height	75 in	1905 mm
Weight	4070 lbs	1846.1 kg

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