

YEC155 SERIES



DC-UPS



155W



108W

DIMENSIONS:



OPEN FRAME:
7.83 x 4.33 x 1.97"
(199 x 110 x 50mm)

EN55032 LEVEL B

BATTERY CUT OFF

RESET INPUT

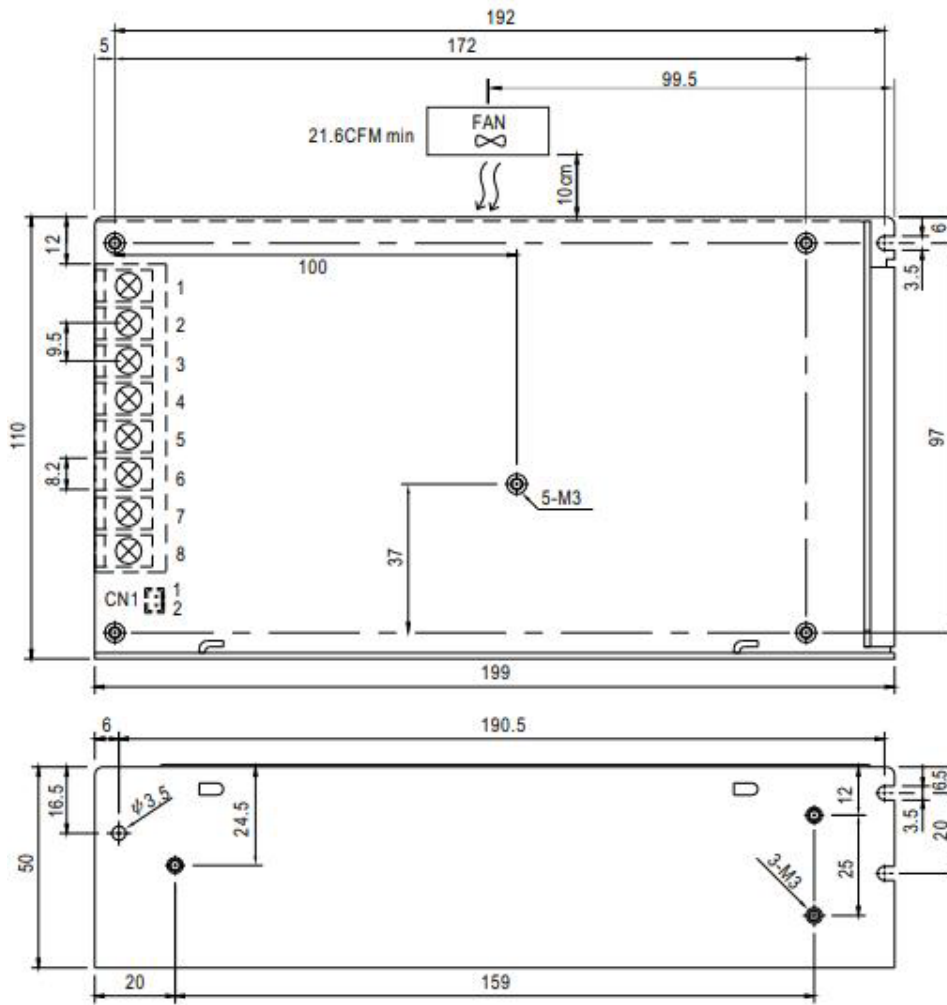
Part numbers

YEC	155	-	138
Series	Power (W)		CH1 Output voltage
			<p>138 = 13.8VDC 276 = 27.6VDC 540 = 54.0VDC</p>

Key specifications

Input range	Safety certification	Efficiency	Environmental performance
90-264VAC	(Certification available soon) UL/IEC/EN 62368-1	80-84%	Operational: -10 to 60°C

Mechanical



Pin	Function	Pin	Function
1	AC Line	5	BAT +
2	AC Neutral	6	BAT - / Com
3	FG	7	DC Output Com
4	NC	8	DC Output +V

Weight	880g
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Unit must be mounted on 360 x 360 mm thick metal plate for EMC performance

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Models & Ratings

Model Number	Output voltage CH1 / CH2	Rated Current CH1 / CH2	Rated Power	Current Range CH1 / CH2	Vout Adjust
YEC155-138	13.8V/13.4V	10.5A/0.5A	151.55W	0-11.5/0-0.5A	CH1: 12-14.5V
YEC155-276	27.6V/26.5V	5A/0.5A	151.55W	0-5.5A/0-0.5A	CH1: 24-29V
YEC155-540	54V/53.5V	2.7A/0.2A	156.5W	0-2.7A/0-0.5A	CH1: 48-58V

Input

Parameter	Min	Typical	Max	Unit	Notes/Conditions
Input voltage	90		264	VAC	127-370VDC also accepted. See page 4 for derating curve
Input frequency	47		63	Hz	
Leakage current			<1	mA	240VAC
Input current (rms)		2.5/1.5		A	115VAC/230VAC
Inrush current		23/45		A	115/230VAC cold start

Output

Parameter	Min	Typical	Max	Unit	Notes/Conditions
CH1 Output voltage	13.8		54	VDC	See Models & Ratings table
Output voltage adjust					See Models & Ratings table
Set point accuracy	±1	±2		%	±2 for YEC155-138
Line regulation		±0.5		%	Rated load
Load regulation		±0.5		%	
Ripple and noise	150		240	mVp-p	20MHz BW 0.1uF and 47uF cap 12" twisted pair 240 mVp-p for 54V only
Hold up	20		24	mS	20ms at 115VAC and 24ms at 230VAC
Setup time	1000		2000	mS	1000mS at 230VAC and 2000mS at 115VAC full load
Rise time		90		mS	At full load

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Protections

Parameter	Min	Typical	Max	Unit	Notes/Conditions
Overload	105		135	%	Hiccup mode, recovers automatically after a fault condition is removed. UPS mode protection by internal fuse
Over voltage	15.87		18.63	VDC	YEC155-138 auto recovery
	31.74		37.26	VDC	YEC155-276 auto recovery
	62.1		72.9	VDC	YEC155-540 auto recovery
Battery Cut off	10			VDC	±0.8V YEC155-138
	19.5			VDC	+1.5V, -1V YEC155-276
	39			VDC	±2V YEC155-540

EMC: Emissions

Standard	Notes/Conditions
EN55032	Conducted and radiated level B, harmonics EN61000-3-2 Class A and flicker
EN55035	ESD, EFT, Surge, RS, CS, dips and interruptions, PFMF

Safety

Parameter	Min	Typical	Max	Unit	Notes/Conditions
Safety standards	UL/IEC/EN62368-1				Certification available soon
Isolation: Input to output	3000			VAC	
Isolation: Input to ground	2000			VAC	
Isolation: Output to ground	500			VAC	
Insulation resistance	100			MΩ	25°C ±5, RH <70% at 500VDC

Environmental

Parameter	Min	Typical	Max	Unit	Notes/Conditions
Operating temperature	-10		60	°C	See derating curve
Storage temperature	-20		85	°C	
Cooling					Free air / 21.6CFM
Temperature coefficient		±0.03		%/°C	0-50°C for CH1
Humidity	20		90	% RH	Non condensing. Storage 10-95%
Vibration	10		500	Hz	2G, 10min/1 cycle 60min, each along X, Y, Z axes
MTBF	1818.3			kHrs	As per Telcordia SR-332 (Bellcore)

