



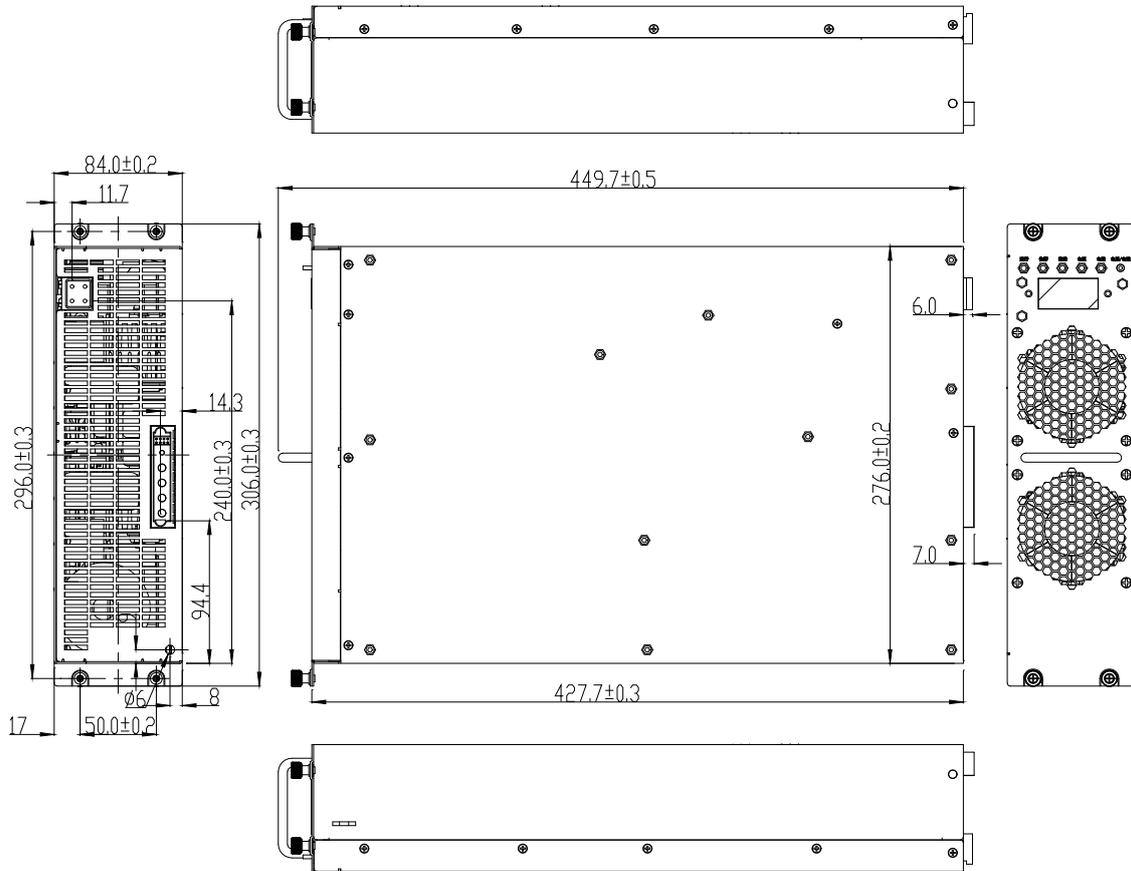
■ Main Features

- J Wide AC input range 3 phases 156...502Vac
- J Wide DC output range 200...750Vdc
- J Active PFC
- J 15kW Power rated
- J Multiple IO protections
- J CAN bus communication interface
- J Usable for broad range of batteries
- J Parallelable for power increase
- J Forced air cooling
- J Ultracompact

TECHNICAL DATA

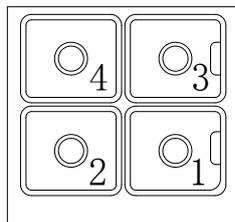
Model type		EVCT 15-750		REMARKS
OUTPUT DATA				
Rated voltage		750Vdc		At rated input
Adj. output voltage range		200...750Vdc		
Output rated power		15kW		Power depending on output voltage and input voltage
Continuous current		25A		
Efficiency		≥ 95%		Rated input, half load output
Line regulation		≤ ±0.1%		
Load regulation		≤ ±0.5%		
Current sharing imbalance		≤ ±5%		Rated AC input range, 50...100% load
Ripple and noise		≤ ±0.5%Vout mVp-p		Width 20MHz bandwidth. Parallel with 10uF+10nF Capacitor
Starting up output delay		3...18s		Rated input voltage starting up till output voltage rise to setting point
Dynamic response	Overshoot range	ΔV ≤ ±5%		Load change at 25% - 50% - 25% or 50% - 75% - 50%, jumping rate is 0.1A/us; jumping period is 4ms
	Recovery time	Δt ≤ 200μs		
Voltage temperature coefficient		≤ ±0.02%/°C		
INPUT DATA				
Rated input voltage		200...450Vac (typical value 380Vac)		<ul style="list-style-type: none"> When input voltage is from 156...323Vac, the total output power will be derated from 100% to 40% linearly. When input voltage is in range of 440Vac...502Vac, output power is 90% of the rated power
AC input voltage range		156...502Vac		
AC input grid frequency range		45...65Hz		
Power factor		≥ 0.99		Rated input, rated load
Max. input current		30A		
Inrush current		< 45A		
Input current harmonic		≤ 5%		Rated input, rated load
PROTECTION CHARACTERISTICS				
Protections		<ul style="list-style-type: none"> Input under voltage protection Input over voltage protection Output over current protection Output overvoltage Short circuit protection Over temperature protection 		Auto recovery
Internal protection fuse		None, external fuse must be provided		
Recommended external protection		Fuse 3x 30AT or 3x MCB 32A C curve It is strongly recommended to provide external surge arresters (SPD) according to local regulations.		
Output over voltage protection point		Vout + 50Vdc		
USER INTERFACE				
Status LEDs		<ul style="list-style-type: none"> LED for AC OK and unit ON LED for general alarm (e.g. temperature, overload, short-circuit) LED for unrecoverable internal failure LEDs for U/I function on the 7 segment display, function switched by front key 3 digits/7 segment display for U/I out values 		
SAFETY & EMC				
Dielectric strength	Input-output	3535Vdc/10mA/ 1min		No flashover, no breakdown.
	Input-ground	3535Vac/10mA/ 1min		
	Output-ground	2121Vdc/10mA/ 1min		
Touch (leakage) current		≤ 3.5mA		502Vac/60Hz
EMC	Conducted Emission	CLASS A		
	Radiated Emission	CLASS A		
	Current harmonic	<ul style="list-style-type: none"> IEC61000-3-2 	CLASS A	
	Immunity	<ul style="list-style-type: none"> IEC61000-4-2 	LEVEL 3	ESD Radiated immunity Burst Surge Conducted immunity DIP
		<ul style="list-style-type: none"> IEC61000-4-3 	LEVEL 3 criteria A	
<ul style="list-style-type: none"> IEC61000-4-4 		LEVEL 3		
<ul style="list-style-type: none"> IEC61000-4-5 		LEVEL 4 Diff. mode ±2KV, Common mode ±4KV		
	<ul style="list-style-type: none"> IEC61000-4-6 	LEVEL 3 criteria A		
	<ul style="list-style-type: none"> IEC61000-4-11 	CLASS 2		
Safety		EN61851-1		
ENVIRONMENTAL CONDITIONS				
Operating Temperature		- 40...+ 60°C		
Derating		- 300W/°C over 50°C		
Storage Temperature		- 40...+ 70°C		
Relative Humidity	Operation	≤ 90%		
	Storage	≤ 95%		
Altitude		≤ 4000m		
Cooling		Forced air cooling, front to back with regulated fans		
GENERAL DATA				
Acoustics noise		≤ 55dB(A)		A-weighted, test distance is 1 meter
Hot swap capability		Yes		
Environmental requirement		Meets 2002/95/EC		
Placement		Vertical		
Connection to ground		Through Mechanical case, front plane, fixing screw and rack.		
Weight		About 11kg		

DIMENSIONS



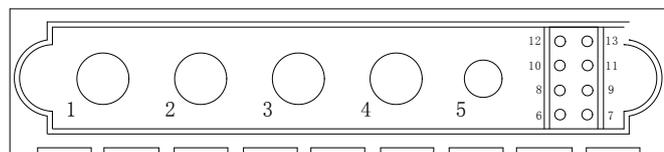
OUTLINE DIMENSION
LxWxH: 427.7±0.5mm x 276±0.5mm x 84±0.5mm Max (Not including connector depth)

CONNECTION



Input Connection:

- 1 = Phase 1
- 2 = Earth ground
- 3 = Phase 2
- 4 = Phase 3



Output Connection:

- 1 = Negative Output
- 2 = NC
- 3 = Positive Output
- 4 = NC
- 5 = NC
- 6 = address GND (AGND)
- 7 = address wire 2 (D2)
- 8 = NC
- 9 = address wire 1 (D1)
- 10 = NC
- 11 = communication wire (CANL)
- 12 = communication ground (CANGND)
- 13 = Communication wire (CANH)