

TC/M024V0300FAA
TC/M012V1200FAA



APPLICATIONS

- Engineering Machinery
- Diesel Engine Starting
- Industrial Equipment

FEATURES AND ADVANTAGES

- One Million Cycles Lifetime
- High Power Density
- Wide Operating Temperature Range

Electrical Performance		024V0300F	012V1200F
Capacity	Rated Capacity	300F	1200F
	Capacity Tolerance	0/+20%	0/+20%
Voltage	Rated voltage	24V DC	12V DC
	Surge Voltage	28.5V DC	14.3V DC
Internal resistance	ESR(initial)	3.5mΩ	0.88mΩ
Electric current	Maximum leakage current (25°C , after 72h)	6mA	12mA
	Maximum continuous current	130A	260A
Energy	Maximum peak current	1900A	3800A
	Stored energy E _{stored}	24Wh	24Wh
Power density	Energy density E _{max}	1.6Wh/kg	1.6Wh/kg
	Power density P _{max}	2743W/kg	2727W/kg

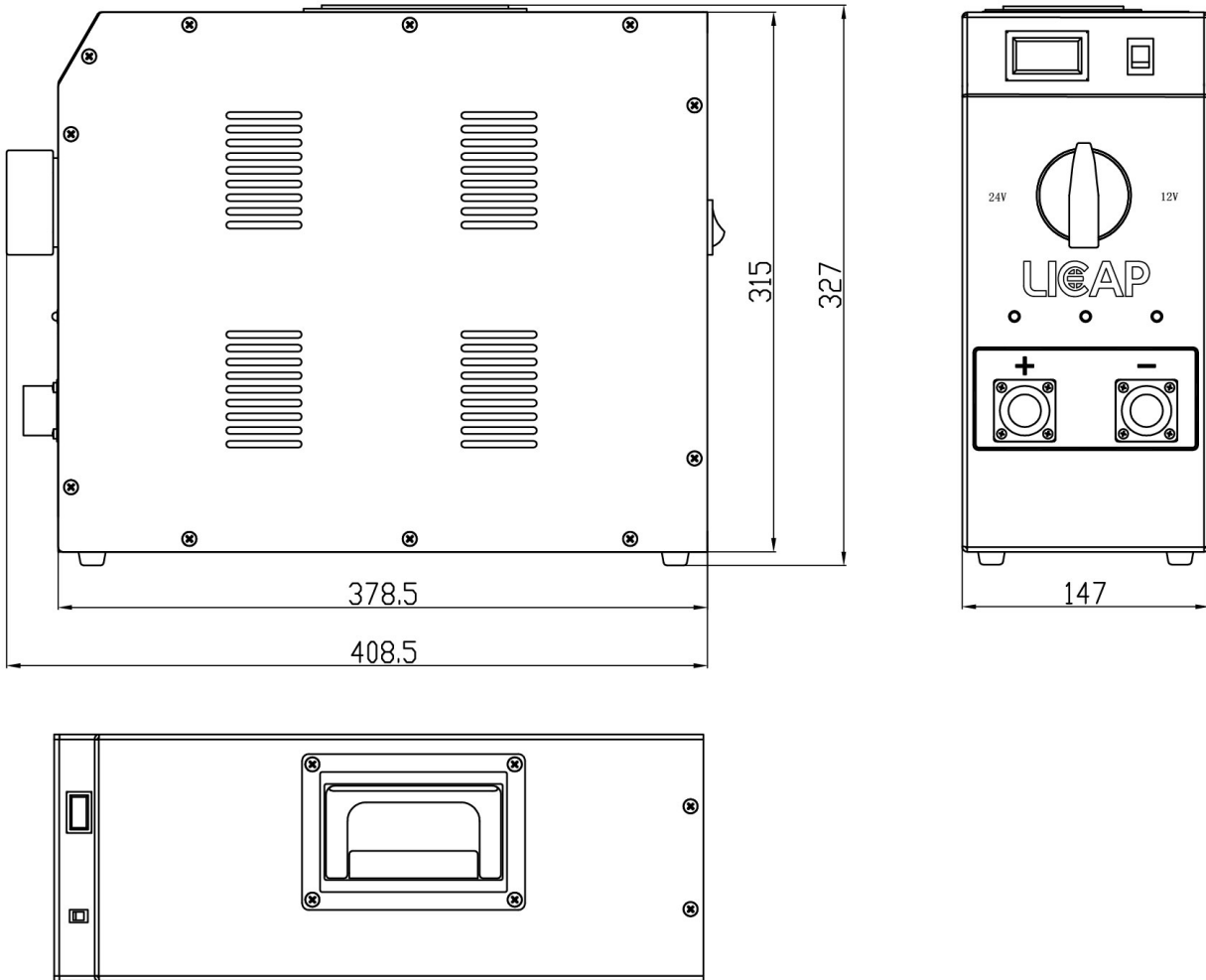
Temperature Features		
Temperature features	Operating Temperature Range	-40 ~ +65°C
	Storage Temperature Range	-40 ~ +70°C

Service Lifetime		
Lifetime Under Normal Temperature	Operated over 10 years under 25°C at rated voltage	
	Change in capacity	≤20%
Lifetime Under High Temperature	After operated for 1500h under 65°C at rated voltage	
	Change in internal resistance	≤100%
Storage Lifetime	4 years (under the highest storage temperature, uncharged)	
Cycling Test	1 million cycles between rated voltage and half rated voltage at 25°C with constant current	
	Change in capacity	≤20%
	Change in internal resistance	≤100%

Safety Specification and Mechanical Features		
Safety	Insulation resistance	500V DC Insulation resistance ≥100MΩ
	Insulation intensity	2500V DC Leakage current ≤5mA
	Protection level	IP20
Mechanical Vibration	Operation vibration	GB/T 11287-2000
	Transportation vibration	GB/T 4798.2-2008
	Impact	GB/T 14537-1993

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Outline Drawing (For Reference)



External Dimension

Weight	Unit: kg	≤15
Size	Unit: mm	408.5*147*327 (L*W*H)
Shell	Metal plate	