



Datasheet

MLSK-500-16

Electrical Parameters	
Rated voltage	16.2 V
Maximum voltage	17.1 V
Rated capacitance	500 F
Maximum ESR (DC 10 ms)	0.9 mOm
Rated current(instant cycling)	300 A
Maximum pulse current (1 sec) ¹	3 000 A
Short curcuit current	15 000 A

Energy Parameters	
Stored energy ²	18.2 Wh
Specific energy ³	2.89 Wh/kg
Energy density ⁴	3.71 Wh/l
Efficiency	98%

Power Parametrs	
Peak power	72.9 kW
Specific power	11.6 kW/kg
Power density	14.9 kW/l

Temperature	
Operating range	-60 +65 °C
Storage range(discharged)	-65 +70 °C

Life	
<i>Capacitance decrease from minimal initial value by 20%</i>	
<i>ESR increase from minimal initial value by 100%</i>	
Cycle life (at 25°C)	1000000 cycles or 15 years
Cycle life (at 65°C)	1500 hours
Shelf life(stored uncharged at 25°C)	4 years

Weight-mass parameters	
Mass	6.3 kg
Volume	4.9 l
Dimensions (L*H*W)	250X140X140 mm
Environmental protection	IP65

Notes

¹ Maximum Pulse Current = $\frac{1/2CV}{C*ESR+1}$
² Stored Energy = $\frac{1/2CV^2}{3600}$
³ Specific energy = $\frac{1/2CV^2}{3600*Mass}$
⁴ Energy density = $\frac{1/2CV^2}{3600*Volume}$