

标准模组—18V,500F

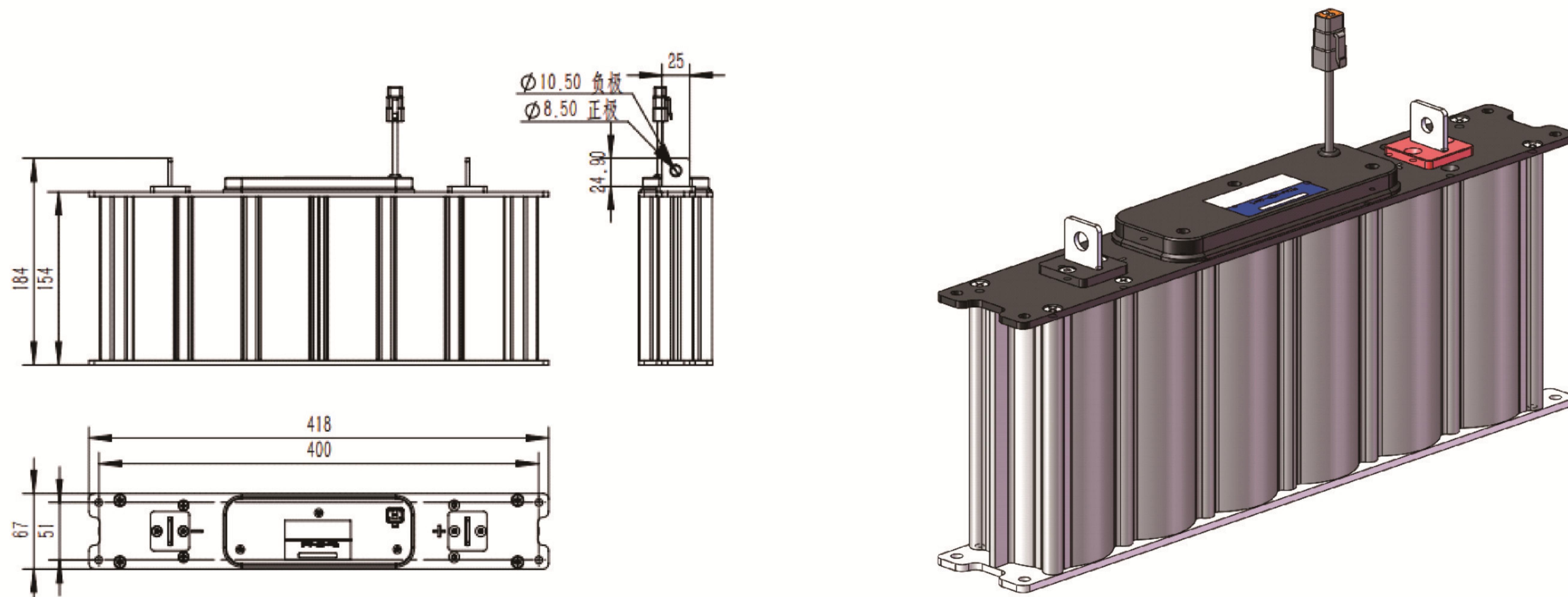
典型应用

储能系统、重型机械、新能源汽车、风力变桨、内燃机启动系统等。

性能特点

规格	特性
额定电压	18 V.DC
浪涌电压	18.9 V.DC
额定容量	500F
工作温度范围	-40°C ~ +65°C
产品寿命	常温循环寿命：在25°C下，用恒定电流使电容器在规格电压和半额定电压间循环充放电50万次。 容量衰减≤30%，内阻变化≤3倍。 高温耐久寿命：在+65°C条件下，施加额定电压1000小时。容量衰减≤30%，内阻变化≤3倍。

尺寸图示 (单位 : mm)



规格参数

产品编码	额定电压(V)	标称容量(F)	尺寸(mm)			内阻 ESRDC (25°C/mΩ)	最大工作电流(A)		最大 峰值电流 (A)	最大漏电流 (72hrs/mA)	最大能量 (W.h)	能量密度 (W.h/kg)	功率密度 (KW/kg)
			长度(L)	宽度(W)	高度(H)		(△T=15°C)	(△T=40°C)					
SMD0018R0500CAAZF00	18	500	418	67	184	1.74	128	209	2406	5.2	22.5	4.3	4.3

STANDARD MODULE - 18V, 500F

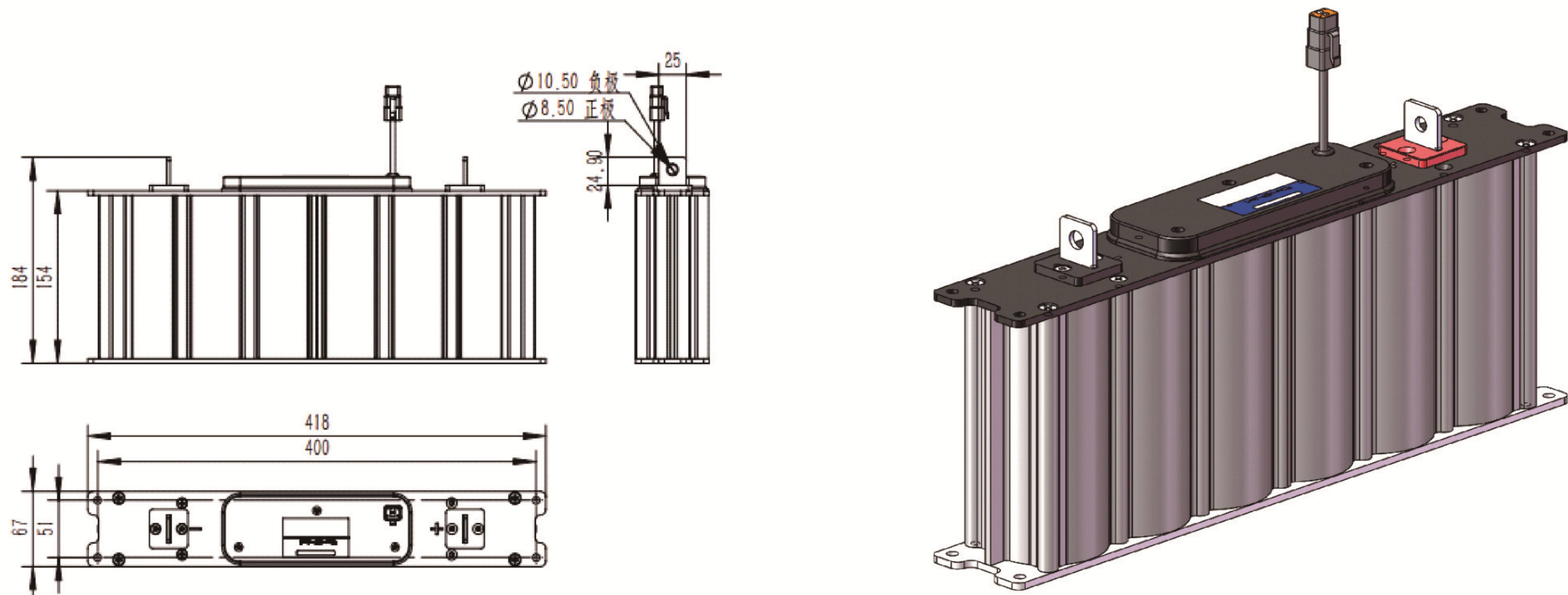
Typical Applications

Energy storage systems, heavy-duty machinery, new energy vehicles, variable wind power propellers, starting system for internal combustion engines, etc.

Features

Specifications	Characteristic
Rated voltage	18 V.DC
Surge voltage	18.9 V.DC
Rated Capacity	500F
Operating temperature	-40°C ~ +65°C
Life	Cycle life at normal temperature: Capacitors charge-discharge between rated voltage & half voltage under constant current at 25°C. ≥ 500,000 cycles, Capacity fade ≤ 30%, internal resistance variation ≤ 3 times High-temperature durability: Apply rated voltage for 1,000 hours at +65°C. Capacity fade ≤ 30%, internal resistance variation ≤ 3 times

Dimensions (Unit:mm)



Parameters

Code no.	Rated voltage (V)	Nominal capacity (F)	Dimension(mm)			Internal resistance ESRDC (25°C/mΩ)	Maximum operating current(A)		Maximum peak current (A)	Maximum leakage current (72hrs/mA)	Maximum energy (W.h)	Energy density (W.h/kg)	Power density (KW/kg)
			Length (L)	Width (W)	Height (L)		(ΔT=15°C)	(ΔT=40°C)					
SMD0018R0500CAAZF00	18	500	418	67	184	1.74	128	209	2406	5.2	22.5	4.3	4.3