

Vinatech



VinaTech, based in Korea, is a fast growing manufacturer of Electric Double Layer Capacitor (EDLC) and Hybrid Capacitor (P-EDLC) HY-CAP brand of Super Capacitors.

The HY-CAP series offers high capacitance ranges from 0.5 Farad to 500 Farad with a capability of up to 6000 Farad from Single cells to modules. Applications include Wireless Communications, IoT, Security, Medical and Regenerative technology.

EDLC Product Range

EDLC [Electric Double Layer Capacitor]



FEATURES

Rated 2.5V, 2.7V, 3.0V

Higher Power Density (low ESR)

Over 500,000 cycle life

Short-term Peak Power assist applications

Operating temperature range

- Rated 2.5V : -25°C ~ 70°C

- Rated 2.7V, 3.0V : -40°C ~ 65°C

The Hy-Cap NEO WEC series Anti Wetting solution EDLC Supercaps has been developed by VINA Tech's development team to combat the extreme conditions experienced by customers in all sectors when the final user deploys in areas of high temperature and high humidity.

Hy-Cap NEO VET Supercapacitors

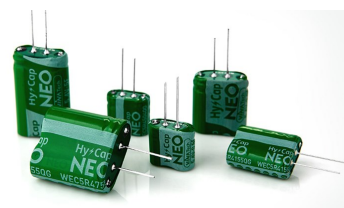
Optimized Performance for wider temperature environments and Long-term reliability, Hy-Cap NEO VET 2.7V Supercapacitors can operate in a temperature range of -40°C to +85°C and in a relative humidity of upto 85% over a 500,000 Cycle life.



Hy-Cap modules

Hy-Cap customized module comes in a structure optimized to the customer's specifications and application areas. Items subject to optimization include capacitance, voltage, current, size, enclosure protection level, terminal type and balancing circuit.

Hy-Cap 2 Series module, a serial combination of 2 single cells, comes in a sleeve type where the outer surface is encased with sleeves. They are divided into rated Voltages of 6.0V, 5.4V which are ideal for smart meters or black box products for cars and many other applications.

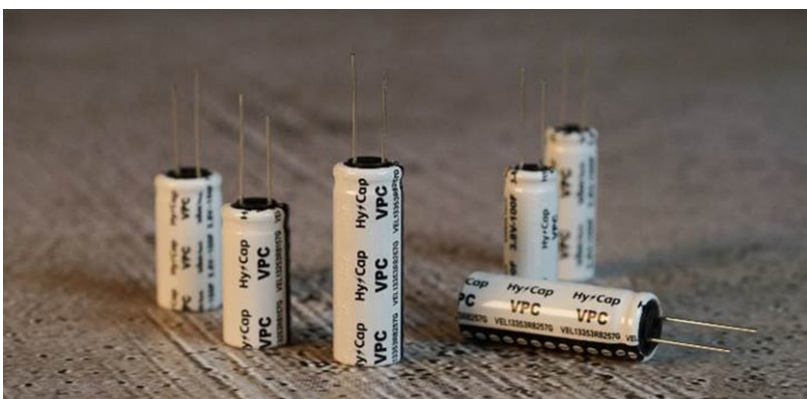


VPC Lithium Hybrid

Hy-Cap VPC(Vina Pulse Capacitor) single cell products are rated at 3.8v and suitable for applications requiring higher voltage and high energy density than standard EDLCs.

VINATech, developed the VPC Lithium Hybrid EDLC Capacitor to meet growing demands for environmentally friendly and cost effective solutions for long term back up, pulse management for IoT & AMR applications.

VINATech Vina Pulse Capacitor (VPC)						
Item	Spec Value		Test Methods			
Operating Voltage Range	2.5V to 3.8V					
Operating Temp. Range	-25°C to +70°C					
Load Life @ 70°C	Capacitance : ± 30% of initial value ESR : Less than 200% of initial spec. value		Temperature: 70±2°C Time : 1,000 hours Measure the floating charge characteristics after returning to normal temperature and humidity.			
Projected cycle life			Capacitance : ± 10% of initial value Cycle Number : 20,000 Cut-off Voltage : 2.5V (DOD 100%)			
Shelf life	Temperature: 85±2°C, -40±2°C ESR : Less than 100% of initial spec. value		Temperature: Below 25°C No electrical charge			
Part Number	Rated Voltage (V)	Capacitance (F)	ESR (mΩ)	Max. Current (A)		Size (mm) D x L
			AC (1kHz)	Continuous	Pulse (1s)	D x L
VEL08203R8306G	3.8	30	350	0.1	0.5	08x20
VEL08253R8506G	3.8	50	210	0.15	0.5	08x25
VEL10303R8107G	3.8	100	100	0.4	2	10x30
VEL10403R8157D	3.8	150	70	0.5	3	10x40
VEL13253R8157G	3.8	150	70	0.5	3	12.5x25
VEL13353R8257G	3.8	250	50	0.75	5	12.5x35



Features of VPC

- Low Self Discharge
- Wide Operating Temperature Range
- High Operating Voltage

Rev:17.10.2022