



The Powerful Advantage Since 1945

LaMARCHE[®]

ISO 9001:2015 CERTIFIED

HCAP

Hybrid Supercapacitor



Hybrid Supercapacitor, Electrolytic Double Layer Capacitance (EDLC) combined with Lithium Ion, is an emerging technology that will play a key role in the future of energy systems. The La Marche Hybrid Supercapacitor can replace traditional batteries and offer a more reliable, cost-efficient solution in a single module. The Hybrid technology provides a source of **Power** for engine starting applications and **Energy** for long duration backup.

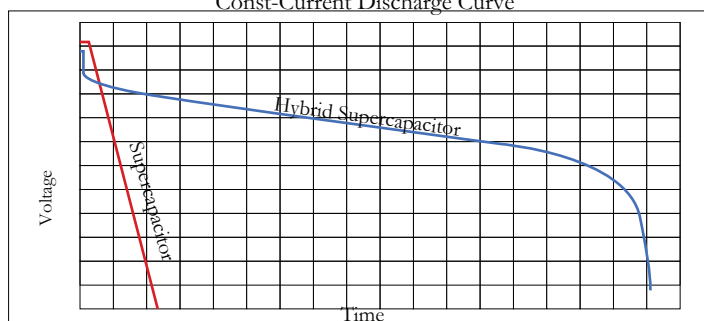
HCAP is environmentally friendly power source which does not contain heavy metals (RoHS Compliant), is non-flammable, and poses no risk of explosion or thermal run away.

* UL 2200 Pending

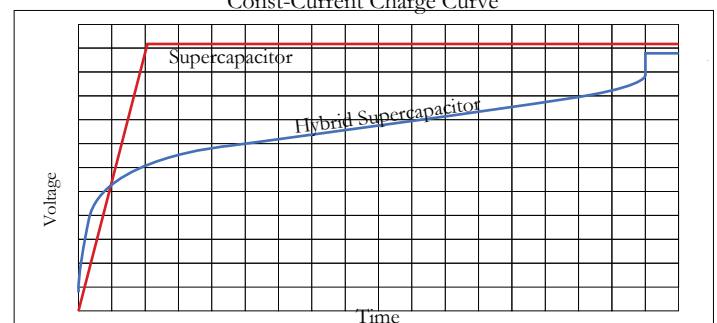
| Specifications | ENGINE START APPLICATION | | | | INDUSTRIAL APPLICATION | | |
|---------------------------|--------------------------|-------------------|---------------------|---------------------|------------------------|-----------------------|---------------------|
| Model: HCAP- | 14.4V-5000F-600 | 14.4V-16000F-900 | 28.8V-2700F-600 | 28.8V-9000F-900 | 13.5V-1000F-70A-18AH | 13.5V-6000F-100A-10AH | 27V-7000F-150A-25AH |
| Capacity | 10Ah | 25Ah | 10Ah | 25Ah | 18Ah | 10Ah | 25Ah |
| Capacitance/Capacity | 5000F | 16000F | 2700F | 9000F | 1000F | 6000F | 7000F |
| Peak Current 1-3 Sec | 600A | 900A | 600A | 900A | --- | --- | --- |
| Peak Current 30 Sec | 200A | 300A | 200A | 300A | --- | --- | --- |
| Total Energy | 150Wh | 360Wh | 275Wh | 660Wh | 210Wh | 300Wh | 600Wh |
| Float Voltage | 14.0V | 14.0V | 28.0V | 28.0V | 13.5V | 13.5V | 27.0V |
| Max. Charging Voltage | 14.4V | 14.4V | 28.8V | 28.8V | 13.5V | 13.5V | 27.0V |
| Min. Voltage | 9V | 9V | 17V | 17V | 9V | 9V | 17V |
| Cells | 6 | 6 | 11 | 11 | 5 | 5 | 10 |
| ESR | 12m | 10m | 17m | 12m | 12m | 12m | 12m |
| Max. Continuous Current | 10A | 30A | 10A | 30A | 70A | 100A | 150A |
| Self Discharge (T = 25°C) | 180 Days | | | | 180 Days | | |
| Dielectric Strength | 2500VDC | | | | 2500VDC | | |
| Compliance | ROHS | | | | ROHS | | |
| Terminals | SAE 3/8" - 16 UNC | | | | SAE 3/8" - 16 UNC | | |
| Operating Temperature | -40°C~+65°C | | | | -40°C~+65°C | | |
| Storage Temperature | -40°C~+70°C | | | | -40°C~+70°C | | |
| Group | 24 | 24 | 24 | 31 | 24 | 24 | 31 |
| Dimensions (W x D x H) | 10.25 x 6.62 x 9.37 | 10.12 x 6.5 x 9.5 | 10.25 x 6.62 x 9.62 | 12.75 x 6.62 x 9.68 | 10.25 x 6.62 x 9.62 | 10.12 x 6.5 x 9.5 | 12.75 x 6.5 x 9.56 |
| Weight (Lbs) | 10.4 | 15.7 | 15 | 26.2 | 11.1 | 9.2 | 24.3 |

Supercapacitor vs. Hybrid Supercapacitor

Const-Current Discharge Curve



Const-Current Charge Curve



Specifications subject to change without notice

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