

# PURETRON(ELECTRIC DOUBLE LAYER CAPACITORS)

## PURETRON

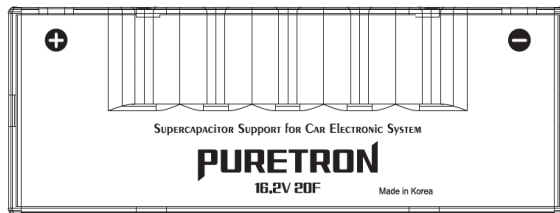
Module Type  
Standard Series



- Endurance : 16.2V 65°C 1000 hours
- Longer cycle life than other secondary batteries
- Supercapacitor support for car electronic system

Item	Characteristics	
Operating Temperature Range	-40 ~ +65°C	
Rated Voltage	16.2 VDC	
Capacitance Tolerance	-20% ~ +20%	
Temperature Characteristics	Capacitance change	Within ±5% of initial value at +25°C
	Internal resistance	Within ±50% of initial value at +25°C
Endurance	Duration	1000 hours
	Capacitance charge	Within ≤30% of initial value
	Internal resistance	Within ≤100% of initial specified value
Shelf Life	After 1000 hours no load test same as endurance	
Life Time at RT <sup>(1)</sup>	10 years	(1)  ΔC  ≤30% of initial value and  ΔESR  ≤100% of initial specified value
Cycle Life(25°C) <sup>(1)(2)</sup>	500,000 cycles	(2) Cycle : between rated voltage and half rated voltage under constant current at 25°C

### • APPEARANCE



### • SPECIFICATIONS

Rated Voltage	Cap.	ESR, DC	Specific Energy	Specific Power	Max. Peak Current	Max. Continuous Current	Weight	Dimension L x W x D	PART No.
V	F	mΩ	Wh/kg	kW/kg	A	A	g	mm	
16.2	20	40	1.62	3.65	90.00	8.10	450	174 x 63 x 33	

1. Capacitance and Equivalent Series Resistance (ESR) measured according to IEC62391-1 at +25°C, with current in milliamps (mA) = 10°C
2. Specific Energy (Wh/kg) =  $(\frac{1}{2} * C * V^2 / 3600) / \text{weight}$
3. Specific Power (kW/kg) =  $(V^2 / 4 * \text{ESR}) / \text{weight}$
4. Max Peak Current in Amps (A), 1 second discharge from rated voltage to half rated voltage =  $(\frac{1}{2} * C * V) / (1 + \text{ESR} * C)$
5. Max Continuous Current in Amps (A), 20 second discharge from rated voltage to half rated voltage =  $(\frac{1}{2} * C * V) / (20 + \text{ESR} * C)$