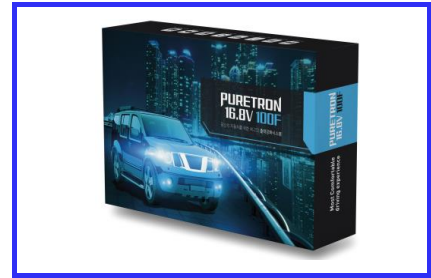


PURETRON(ELECTRIC DOUBLE LAYER CAPACITORS)

PURETRON

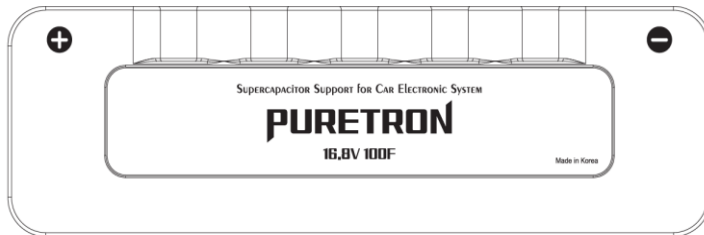
Module Type
Standard Series



- Endurance : 16.8V 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	16.8 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 ⁽¹⁾	10 years	(1) ΔC ≤30% of initial value and ΔESR ≤100% of initial specified value
Cycle Life(25°C) ⁽¹⁾⁽²⁾	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	
16.8	100	18	3.02	3.02	300.00	42.00	1300	280 x 88 x 43	PEC16S8MM10735070

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 = $(\frac{1}{2} * C * V) / (20 + \text{ESR} * C)$