

# 전해 CAPACITOR Application

**SAMWHA ELECTRIC**

**1. 5G**

**2. Automotive**

**3. Transportation**

**4. Household Appliance**

**5. Solar Power Inverter**





**6. Power Electronics**

# Recommended Series for Applications





## 1. 5G

New & Upgrade Series

- For Ultra-high Temperature, Long life, and Low Impedance

<b>PJ</b> 135°C, 3000h Ultra High Temp. 	<b>MT</b> 105°C, 12000h Low Temp. -40°C Assurance 	<b>MH</b> 105°C, 12000h Low Imp. Long Life 	<b>MG</b> 105°C, 20000h Ultra Long Life 
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<b>ML</b> 105°C, 10000h Ultra Low Imp. Long Life 	<b>QY</b> 105°C, 13000h Long Life 	<b>YM</b> 125°C 4000h SMD Type Hybrid Capacitor 	<b>YB</b> 105°C, 10000h Lead Type Hybrid Capacitor 
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# Recommended Series for Applications

## 2. Automotive

New & Upgrade Series

- For Powertrain(Engine control, Transmission control, DC/DC-converter)

**UR**



125°C  
5000h  
High Temp, Low ESR

**UN**



125°C  
2000h  
Extremely Low ESR

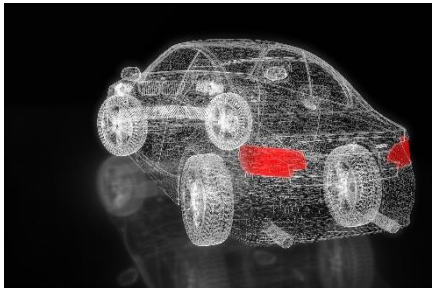
**VQ** 150°C, 1000h  
Ultra High Temp.



**YT**



150°C  
1000h  
Hybrid Capacitor



- For Safety (Camera & radar systems, Breaking, Airbag, ABS)

**CG**



105°C  
2000h  
Extremely Low Impedance

**MG** 105°C, 20000h  
Ultra Long Life



**VP** 135°C, 3000h  
Ultra High Temp.



**YC**



105°C  
10000h  
Hybrid Capacitor



- For Exterior (LED headlight)

**UR**



125°C  
5000h  
High Temp, Low ESR

**JL**



105°C  
10000h  
Long Life

**YH**



125°C  
4000h  
SMD Type  
Hybrid Capacitor

**YL** 125°C, 4000h  
Lead Type  
Hybrid Capacitor

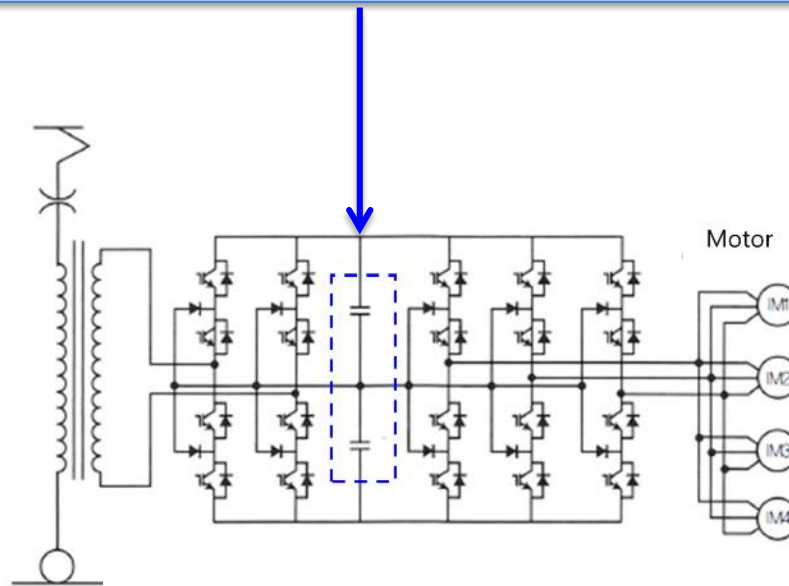


# Recommended Series for Applications

## 3. Transportation

- For Large Capacitance and High Ripple Current in Stud type

EV	GL	GR
		
<b>105°C</b> <b>5000h</b> For Inverter, Long Life	<b>85°C</b> <b>20000h</b> For Inverter, Long Life	<b>85°C</b> <b>5000h</b> For Inverter, High Ripple



# Recommended Series for Applications


## 4. Household Appliance

New & Upgrade Series

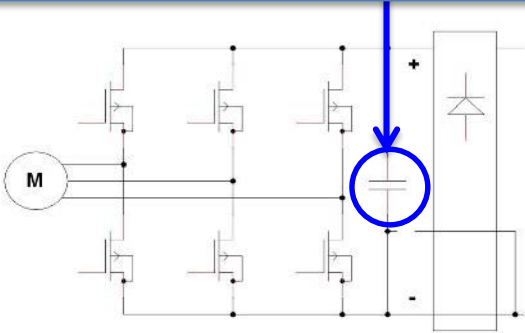
- For High Ripple Current, Miniaturization and Long Life

### For Air conditioner Inverter

**AL**  
  
85°C  
5000h  
High Ripple

**AQ**  
  
85°C  
7000h  
High Ripple, Long Life

**AJ**  
  
105°C  
5000h  
For Inverter, High Ripple



### For Household

**RH**  
  
105°C  
5000h  
High Ripple

**JF**  
  
105°C  
5000h  
High Ripple

**JY**  
  
105°C  
10000h  
Long Life







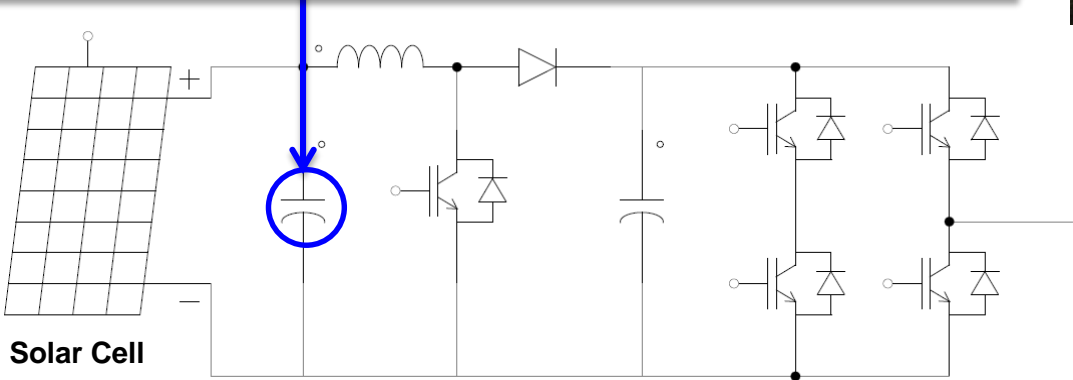
# Recommended Series for Applications

## 5. Solar Power Inverter

- For High Voltage, Large Capacitance and High Ripple Current

New & Upgrade Series

<b>HY</b>  <b>105°C</b> <b>7000h</b> 500Vdc, Long Life	<b>HL</b>  <b>105°C</b> <b>5000h</b> 500Vdc, Long Life	<b>GL</b>  <b>85°C</b> <b>20000h</b> For Inverter, Long Life	<b>GR</b>  <b>85°C</b> <b>5000h</b> For Inverter, High Ripple
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# Recommended Series for Applications

## 6. Power Electronics

New & Upgrade Series

- For Large Capacitance, High Ripple Current and Long Life

<div><b>GY</b></div> <div></div> <div>85°C 2000h For Inverter</div>	<div><b>GL</b></div> <div></div> <div>85°C 20000h For Inverter, Long Life</div>	<div><b>GR</b></div> <div></div> <div>85°C 5000h For Inverter, High Ripple</div>	<div><b>KG</b></div> <div></div> <div>105°C 3000h High Ripple, Wide Temp</div>	<div><b>JY</b></div> <div></div> <div>105°C 10000h Long Life</div>
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- For Power industry , Plant business, Infrastructure business segment

<div><b>DB</b></div> <div></div> <div>65°C 1500h Snap-in Type</div>	<div><b>DK</b></div> <div></div> <div>80°C 1500h Snap-in Type</div>	<div><b>DH</b></div> <div></div> <div>65°C 1500h Weldable, Threaded Type</div>	<div><b>DM</b></div> <div></div> <div>65°C 1500h Module type</div>
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# Samwha's Main Customers

## IT

<b>SAMSUNG</b>	 <b>LG</b>	 <b>Hansol</b>	 <b>DONG YANG E&amp;P</b> energy & power solution	 <b>Powernet</b> Display & Mobile Devices <i>Xpert</i>
 <b>Carrier</b>	 <b>DAEWOO</b>	 <b>navien</b>	<b>Electrolux</b>	<b>RUTRONIK</b>
 <b>ASUS</b>	 <b>SAGEM</b>	<b>Skyworth</b>	 <b>arçelik</b>	<b>PEGATRON</b>

## Automotive

	<b>HYUNDAI</b> <b>MOBIS</b>	<b>DELPHI</b>	<b>OMRON</b>	 <b>KB AutoTech</b>
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## Industrial

 <b>woojin</b> PLAIMM	 <b>HYUNDAI</b> ELEVATOR CO., LTD.	<b>SIEMENS</b>	 <b>ADVANCED WAVE</b>	 <b>Continental</b>
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## Others(medical, LED)

<b>SAMSUNG MEDISON</b>	<b>DRGEM</b> DRGEM Corporation	 <b>KUMHO ELECTRIC</b>	 <b>DASS Tech</b>	 <b>ENERCON</b> ENERGIE FÜR DIE WELT
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