


## Panasonic Industry solutions for EV charger

### 【Benefit Points】

Film Capacitor, Resistor, ZNR Surge absorber, GraphiteTIM


#### Film Capacitor




x 8

Conventional AL Lytic  
450 WV

at PFC output  
DC Link



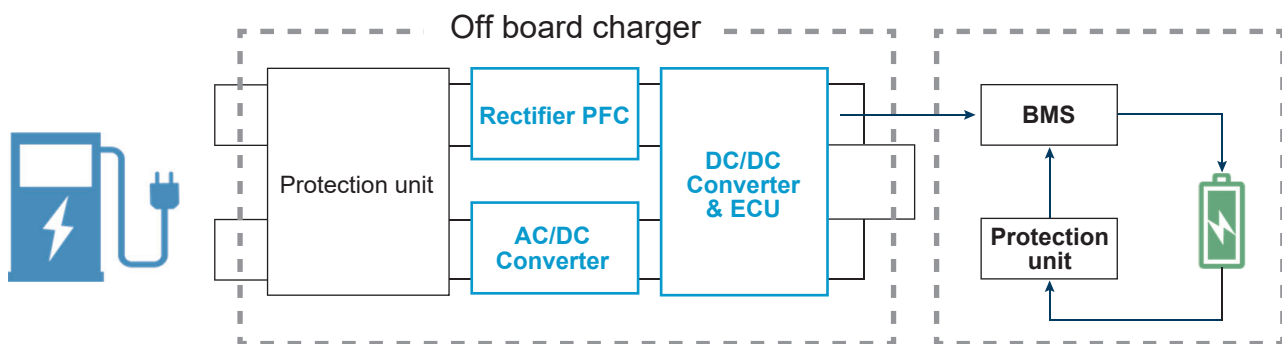


x 2

Our company  
Film Cap 1100 WV

**Enable Design Innovation**

- ✓ Space less
- ✓ Cost less
- ✓ Reliability



#### Resistor

### Supporting gate driver circuit

#### ✓ Anti-Surge / Pulse

Gate resistor



ERJP\*, ERJT\*, ERJB/D\* series

#### ✓ Superior heat dissipation by Wide-terminal



ERJB/D\* series

#### ✓ Harsh-environment for Anti-sulfur series

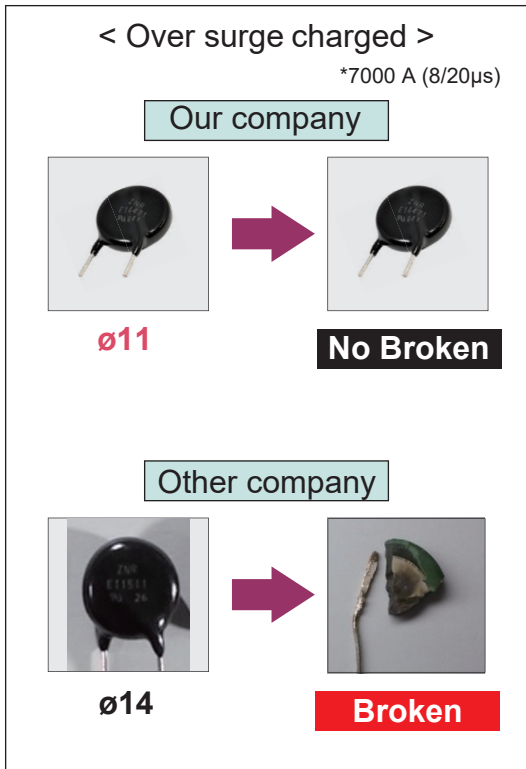
ERJU/UP\* series : Thick film resistor

ERJC\* series : Thick film resistor, Wide-terminal

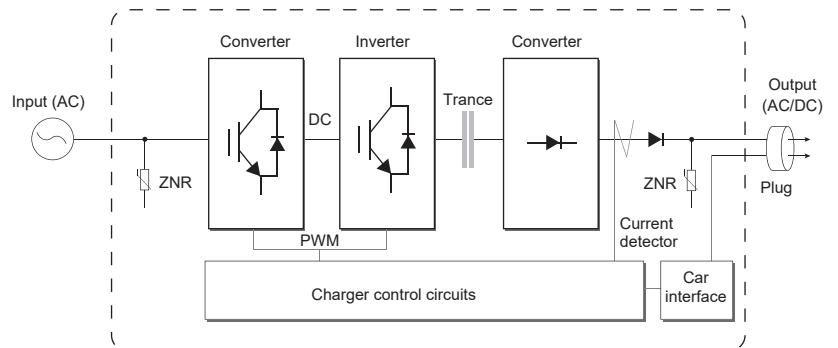
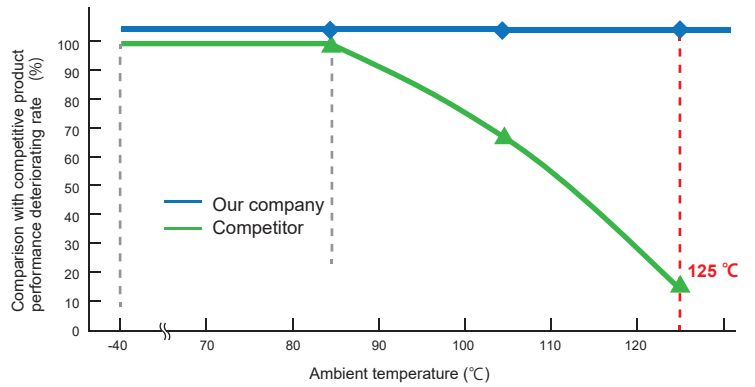
ERA\*/V/K/P series : Thin film resistor

## ZNR Surge absorber

### Safety secured with miniaturization



### ✓ 125 °C model available



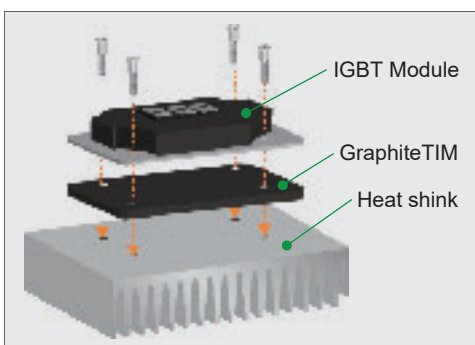
## GraphiteTIM

### Still use Grease?

#### ✓ Low thermal resistance



#### ✓ Easy install

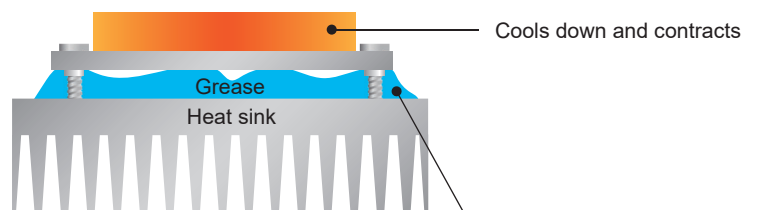


#### ✓ High Reliability

(Pump out test -40°C ⇄ 100°C)

Material	Initial	120 times	Deterioration (Resistance)
Grease			NG
GraphiteTIM			OK

[ Side image ]



[ Back side image ]

