

Voltage Dip / Power Blackout Compensator



UNISAFE

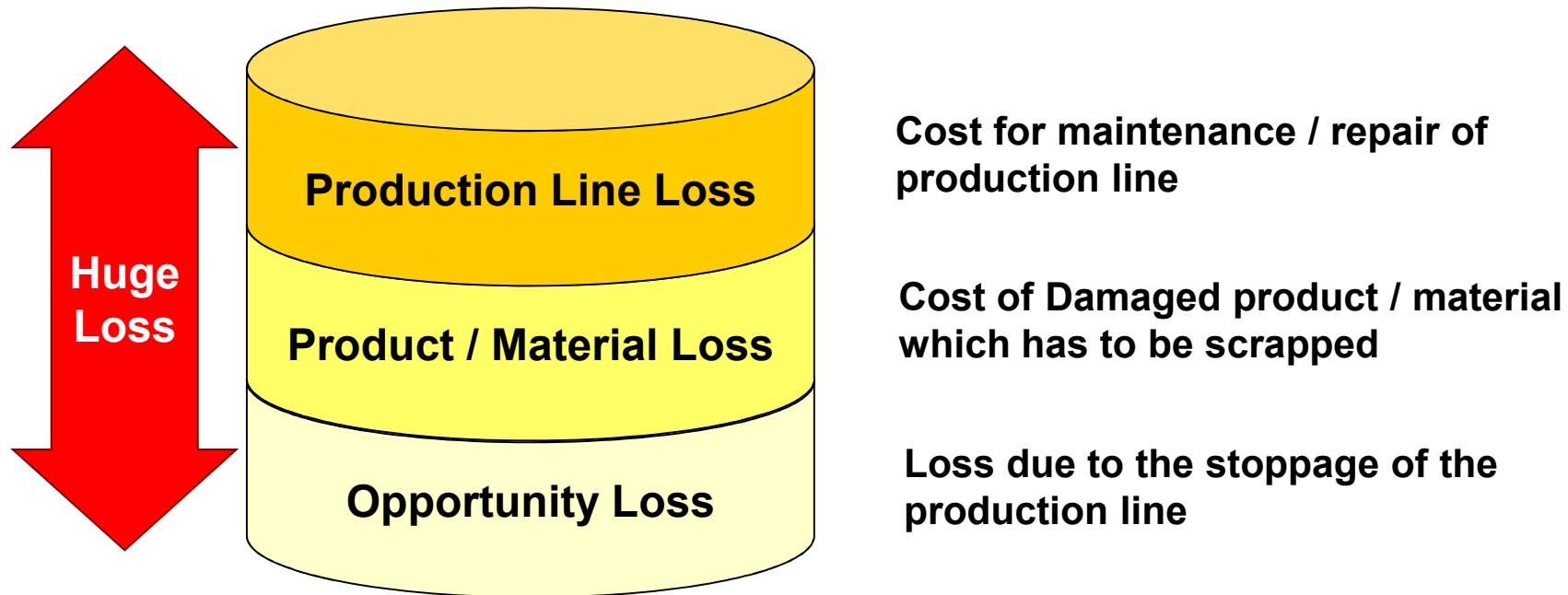


MEGASAFE

Problem of Voltage Disturbance

Power Blackout

Voltage Dip



To mitigate such huge loss, **Nissin** would like to propose you to introduce

Voltage Dip / Power Blackout Compensator



NISSIN ELECTRIC CO., LTD.

Nissin's Voltage Dip / Power Blackout Compensator



UNISAFE

Problem
Voltage Dip

Application
Low Capacity Load

For Low Voltage



MEGASAFE

Problem
Voltage Dip

Application
High Capacity Load

For Medium Voltage



POWERSAFE

Problem
Voltage Dip
Power Blackout

Application
High Capacity Load

For Medium Voltage



HIGH SPEED FAULT CURRENT LIMITING SWITCH

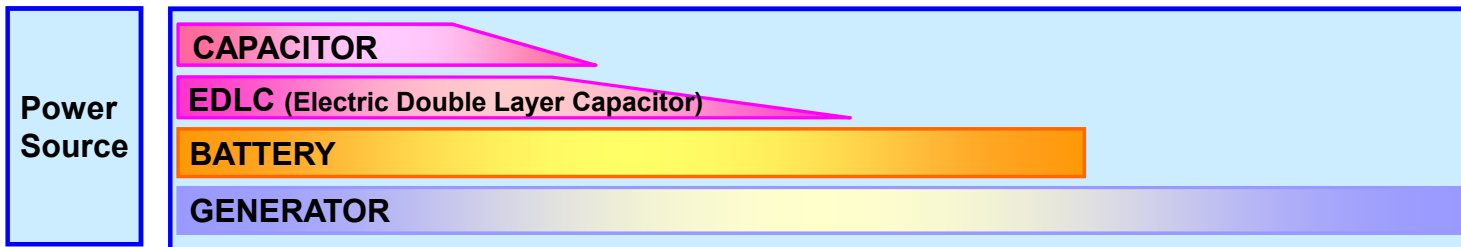
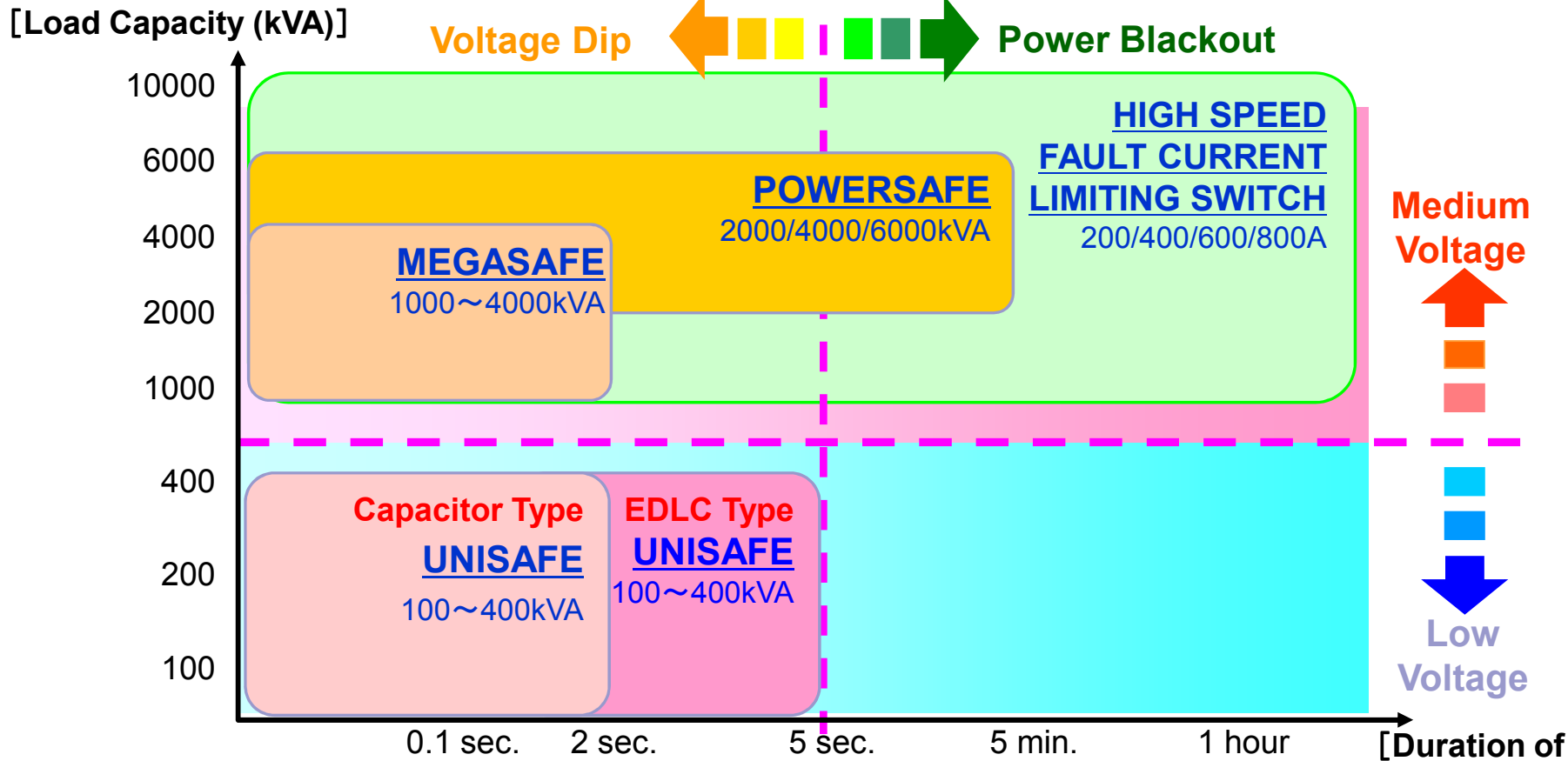
Problem
Voltage Dip
Power Blackout

Application
High Capacity Load
Generators

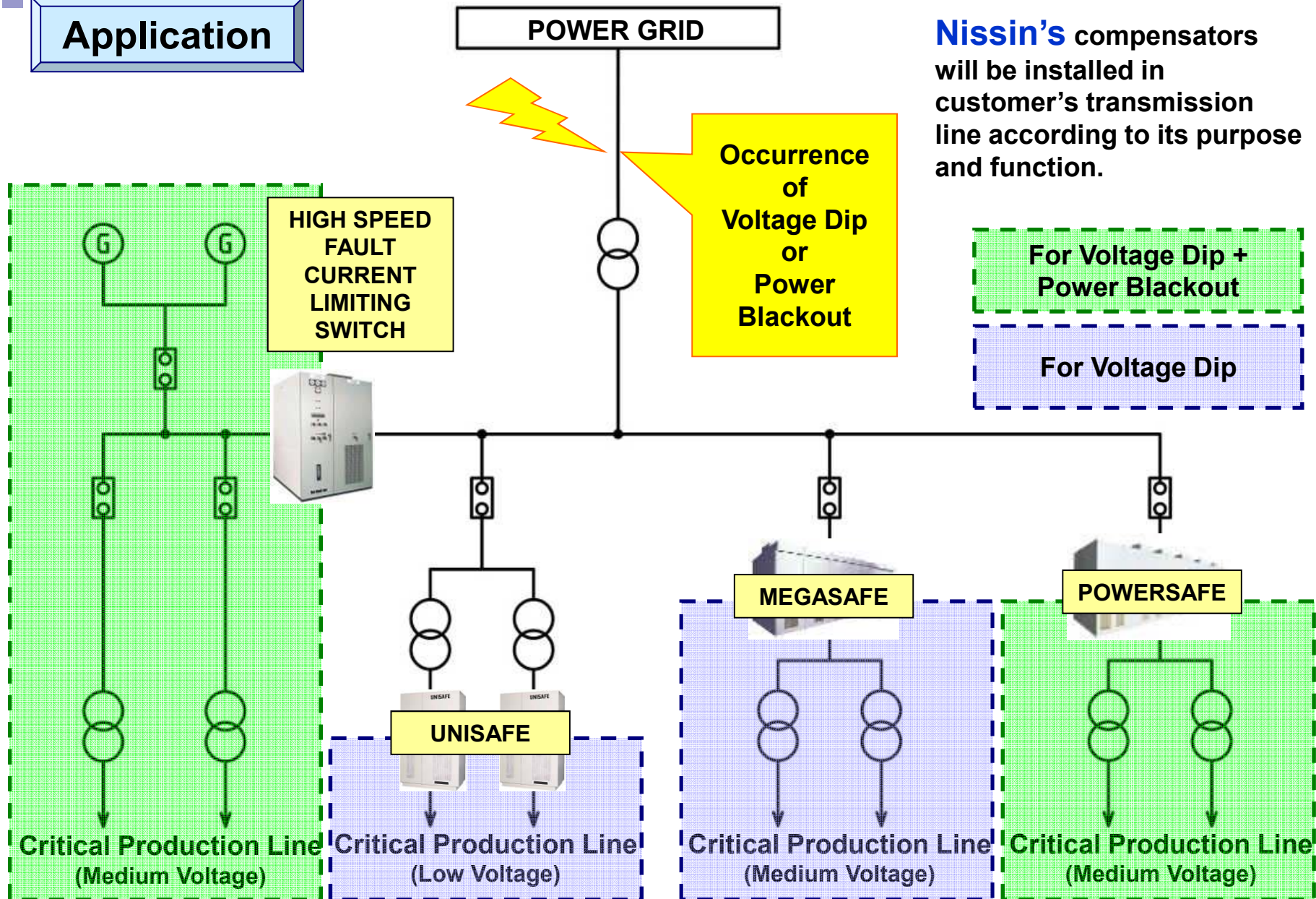
For Medium Voltage

Correction Capability

Nissin offers various types of compensator to accommodate the customers' needs.



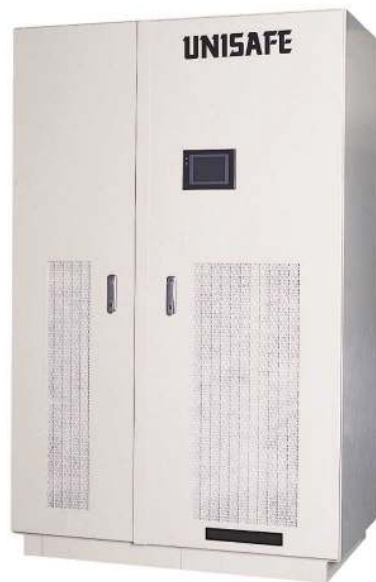
Application



Nissin's compensators will be installed in customer's transmission line according to its purpose and function.

Nissin UNISAFE & MEGASAFE

To countermeasure the problem of Voltage Dip,
we recommend...

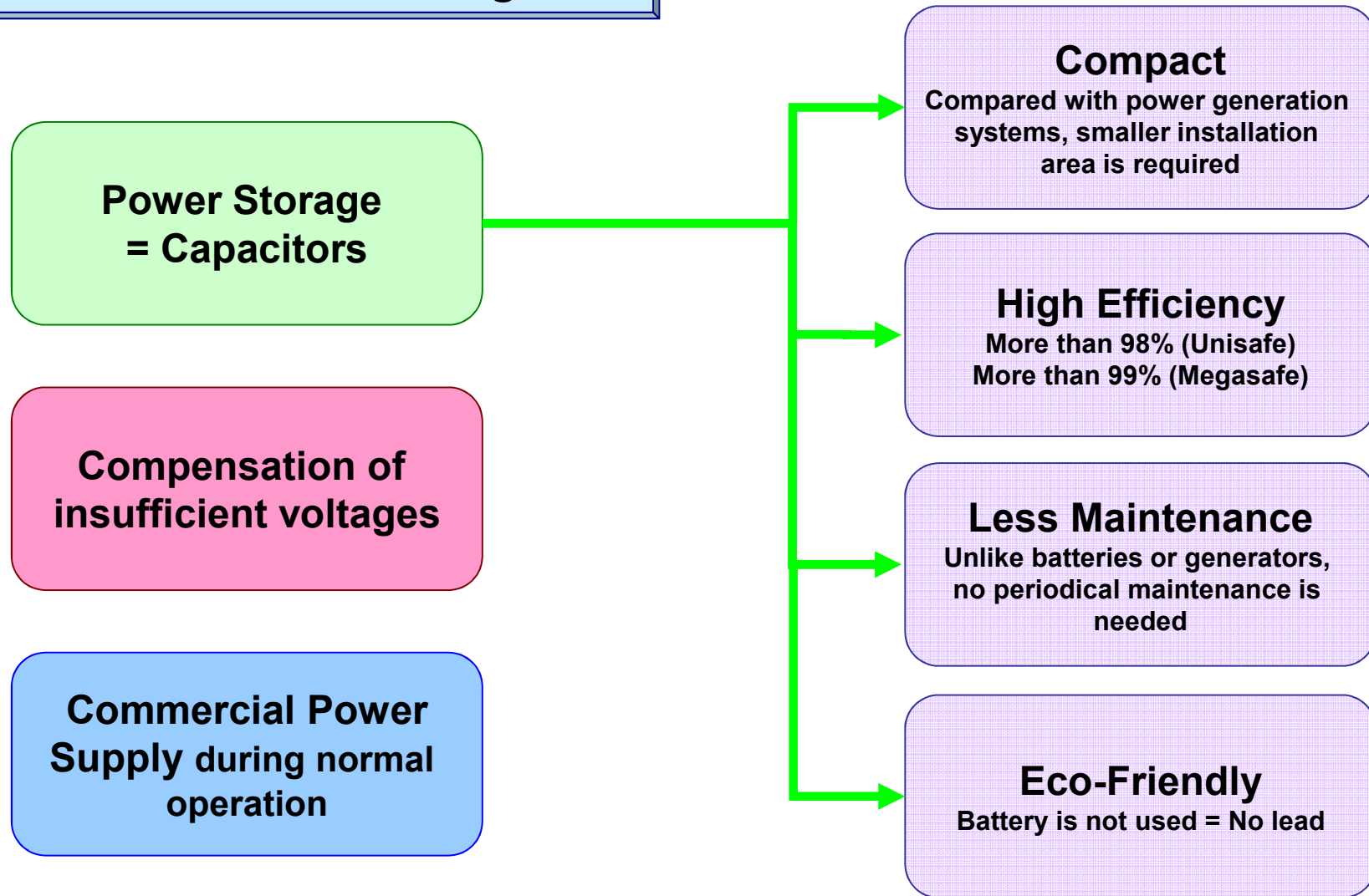


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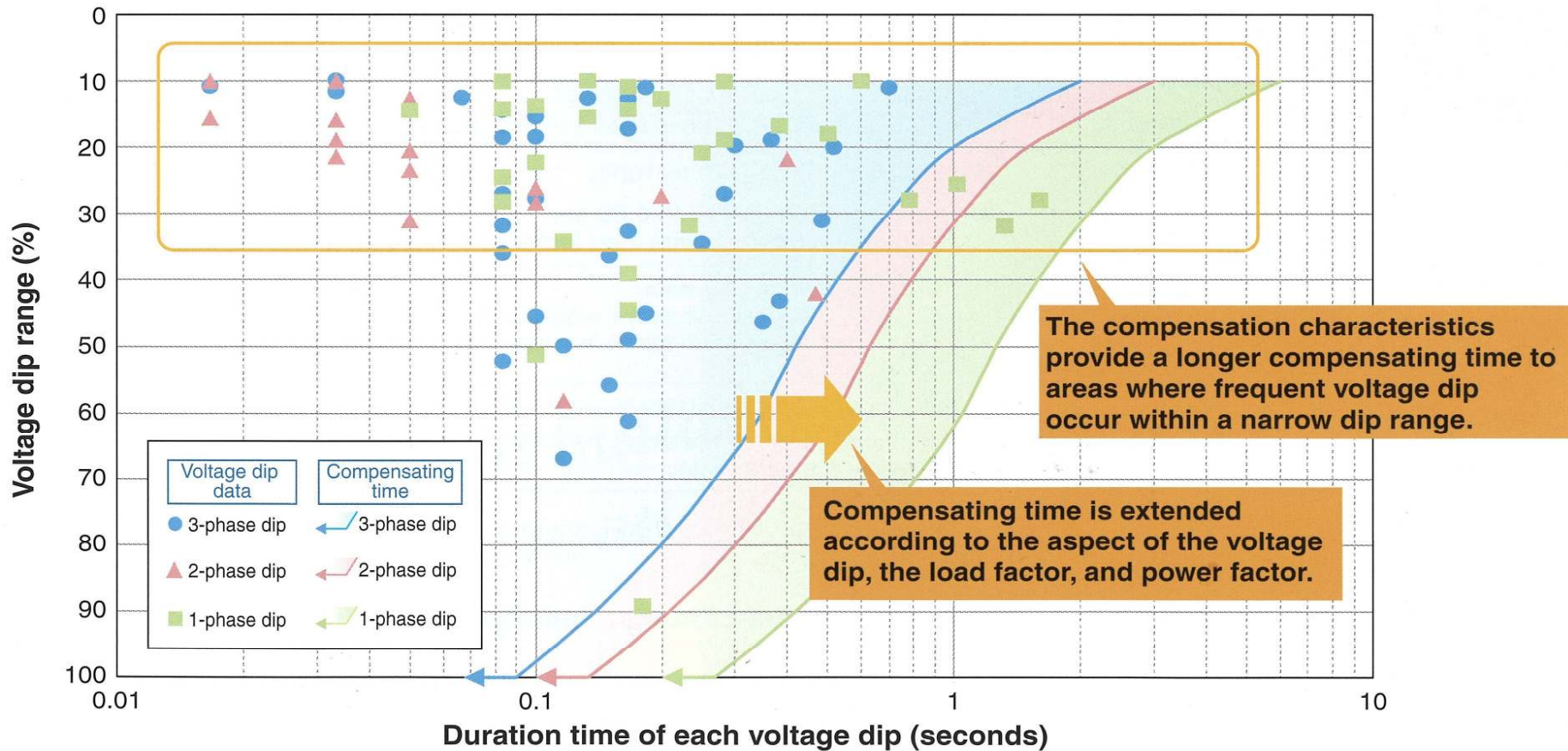
Features of Unisafe/Megasafe



Compensation Characteristic of MEGASAFE

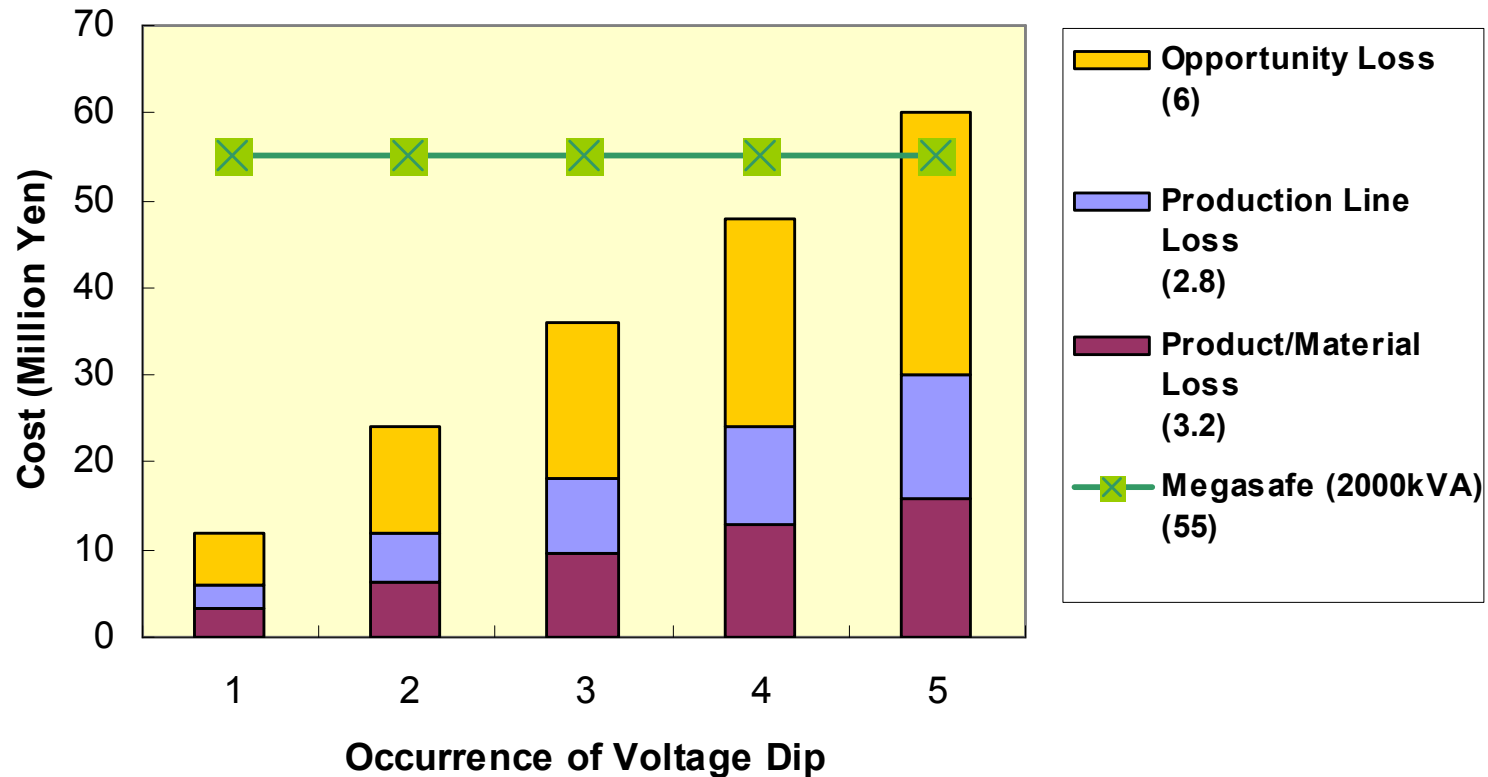
The compensation characteristics of Nissin MEGASAFE is just suitable for the actual voltage dip.

Example of Voltage Dip on Japanese Actual Site and Compensation Performance



Case Study: Cost-Benefit Analysis

Cost-Benefit Analysis



For the above case, the investment for the Megasafe (2000kVA) will be **recovered after 5 times** of the occurrence of Voltage Dip.

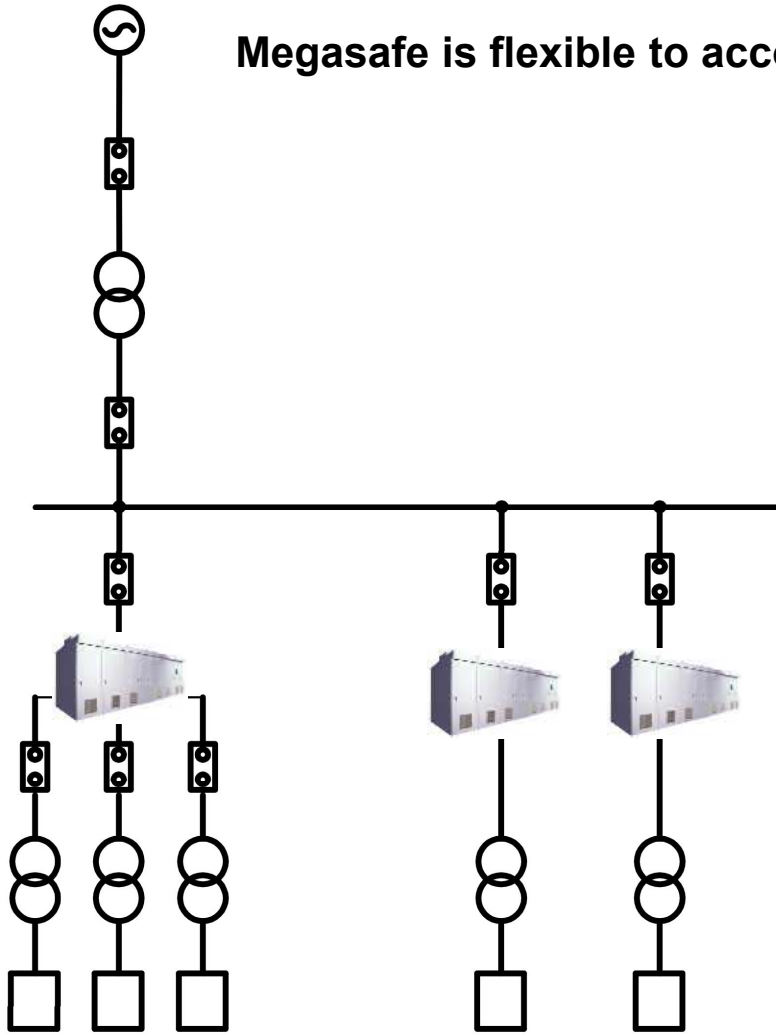
Case Study: Your Case

Voltage	kV
Capacity of Production Line to be Protected	kVA
Occurrence of Voltage Dip	Times/Year
Product/Material Loss	
Production Line Loss	
Opportunity Loss	

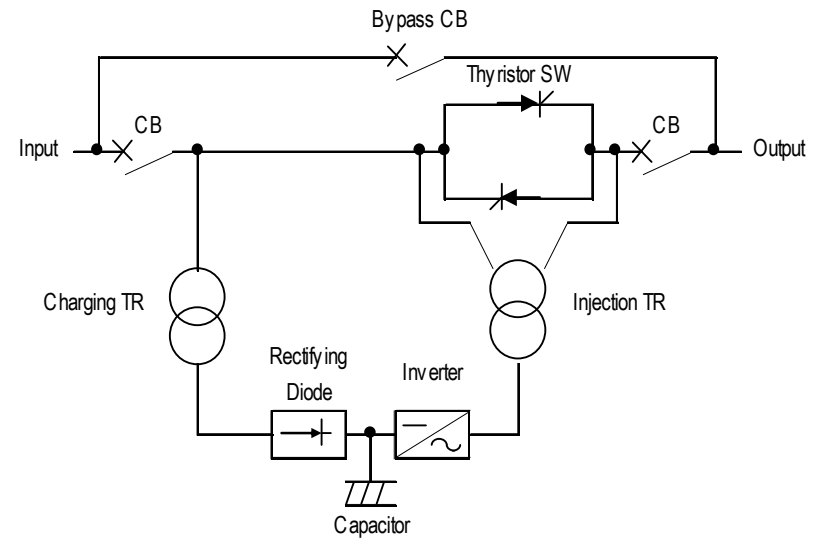
For your case, the investment for the offered voltage dip compensator will be **recovered within year(s)**.

Application of Megasafe

Megasafe is flexible to accommodate the users' production line.



1. For multiple production line 2. For single production line



No AC Power Input for Rectifiers is needed.

Specification

Product	Purpose	Power Storage	Rated Capacity (Rated Current)	Rated Voltage				Duration of Correction (Sec.)			Installation		Dimensions (mm)			Weight (kg)
				Low Voltage		Medium Voltage		0.1-2.0	1.0-5.0	10-60	Indoor	Outdoor	W	D	H	
				200V	400V	3.3kV	6.6kV	Depends on the Level of Voltage Dip								
Unisafe	Insufficient Voltage Serial Compensation	Capacitor	100kVA	●	●			●			●	○	1250 x 750 x 1950	1200		
			200kVA	●	●			●			●	○	1250 x 750 x 1950	1200		
			300kVA		●			●			●	○	2190 x 750 x 1950	2100		
				○				●			●	○	3000 x 750 x 1950	2700		
			400kVA		●			●			●	○	2190 x 750 x 1950	2100		
		○					●			●	○	3000 x 750 x 1950	2700			
		Electric Double Layer Capacitor (EDLC)	100kVA	○	○				●		●	○	1750 x 750 x 1950	1500		
			200kVA	●	●				●		●	○	1750 x 750 x 1950	1500		
			300kVA		○				●		●	○	3190 x 750 x 1950	2700		
				○					●		●	○	4000 x 750 x 1950	3300		
400kVA			●				●		●	○	3190 x 750 x 1950	2700				
	○					●		●	○	4000 x 750 x 1950	3300					
Megasafe	Capacitor	1,000kVA			○	●	●			●	●	6000 x 2500 x 2350	12000			
		2,000kVA			○	●	●			●	●	6700 x 2500 x 2350	13500			
		3,000kVA			○	●	●			●	●	10400 x 2500 x 2350	22300			
		4,000kVA			○	●	●			●	●	11100 x 2500 x 2350	23800			

● Standard
○ Optional

Specification

Product	Purpose	Power Storage	Rated Capacity (Rated Current)	Rated Voltage				Duration of Correction (Sec.)			Installation		Dimensions (mm)			Weight (kg)		
				Low Voltage		Medium Voltage		0.1-2.0	1.0-5.0	10-60	Indoor	Outdoor	W	D	H			
				200V	400V	3.3kV	6.6kV	Depends on the Level of Voltage Dip										
Powersafe	Parallel Full Voltage Compensation	Battery	2,000kVA			○	●			●	●		11400	×	2500	×	2650	43500
			4,000kVA			○	●			●	●		22100	×	2500	×	2650	84700
			6,000kVA			○	●			●	●		31400	×	2500	×	2650	123900
High Speed Fault Current Limiting Switch	Generator Connection	Generator	(200A)			○	●	Depends on the Generator			●	●	2300	×	2500	×	2550	3800
			(400A)			○	●				●	●	3800	×	2200	×	2650	5600
			(600A)			○	●				●	●	4000	×	2200	×	2650	6500
			(800A)			○	●				●	●	5800	×	3200	×	2350	11300

● Standard

○ Optional



Thank You For Your Kind Attention