ezPLC

Energy Harvesting Device for Transmission Towers

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■ Energy Harvesting Device

This device collects energy using non-contact methods from induced current in the ground wire of transmission towers.

▪ Power CT (MTR-PowerCT-V300)

- Waterproof and dustproof outdoor structure
- Switchable structure / low-current operation
- High versatility: ideal for smart transmission tower safety monitoring systems and factory power supply backup AMI signal booster device

▪ Power Supply (SMPS, MTR-SMPS-PC100)

- Waterproof and dustproof outdoor structure
- High energy efficiency
- Equipped with a lightning protection circuit
- Multi-input/output terminals: 4 inputs, 2 outputs

Power CT
(MTR-PowerCT-V300)

Power Supply
(MTR-SMPS-PC100)

Power CT (MTR-PowerCT-V300)	
Dimension (mm)	34 x 115 x 136
Weight (kg)	5.3
Input Current (A)	20 ~ 100
Output Voltage (VAC)	30 ~ 50
Connector	2P(IP67)
Cable & Length (mm)	2P(IP67) & 250
Operating Temp. (℃)	-40 ~ +85

SMPS(MTR-SMPS-PC100)			
Dimension (mm)			130 x 180 x 60
Input Power	Input Voltage (VAC)		20 ~ 50
	Frequency (Hz)		60
	Max. Current (A)		3
	Number of Connector		4
Output Power	Channel 1	Output Voltage (VDC)	14.5 (±5%)
		Output Current (A)	3.5 (C.C)
		Number of Connector	2
	Channel 2	Output Voltage (VDC)	24 (±5%)
		Output Current (A)	2.1
		Number of Connector	1
Output Power (W)			50
Operating Temp. (℃)			-25 ~ +55

www.mattron.kr

(51399) 9, Changwon-daero 204beon-gil, Uichang-gu, Changwon-si, Gyeongsangnam-do, Republic of Korea

T+82-55-232-5941 F+82-55-232-5943 E mattron@mattron.kr

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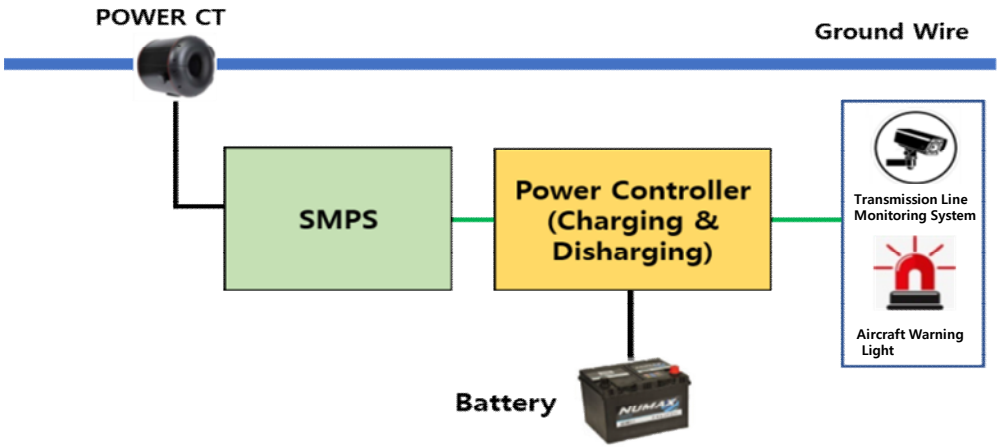
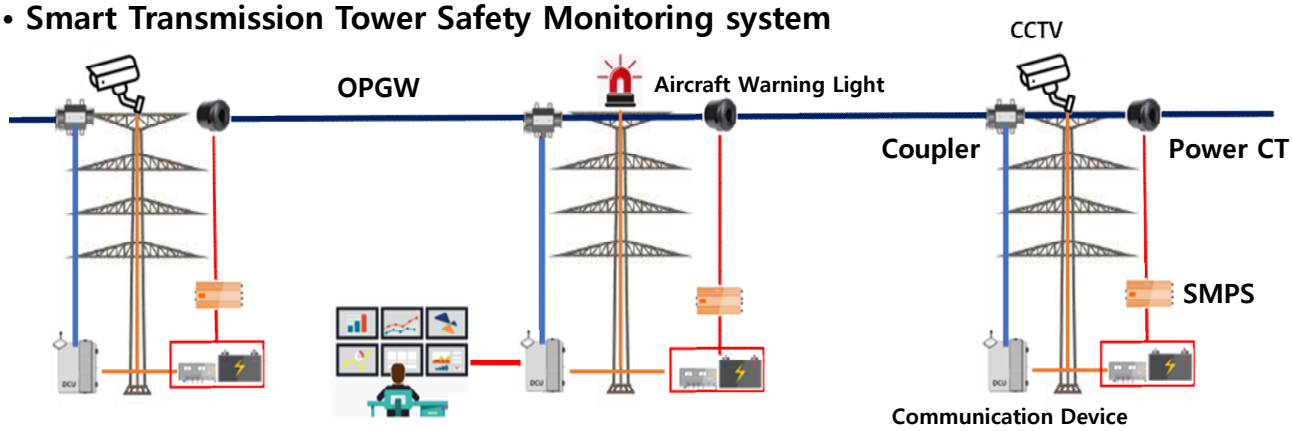
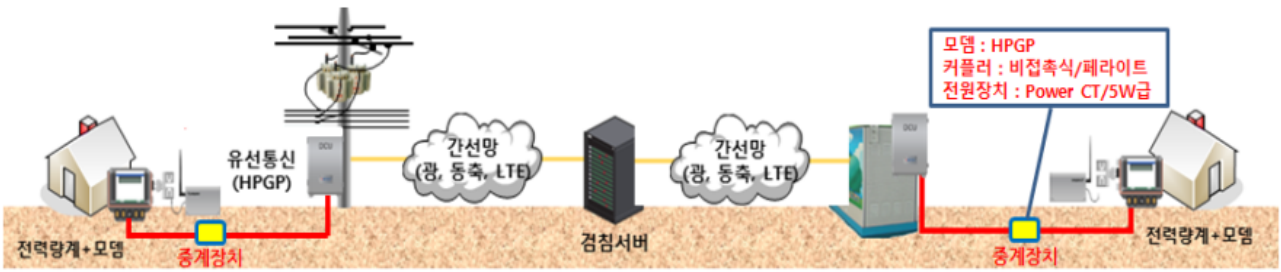
■ Installation Method and Application



• Smart Transmission Tower Safety Monitoring system



• AMI Signal Booster



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