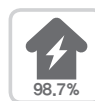
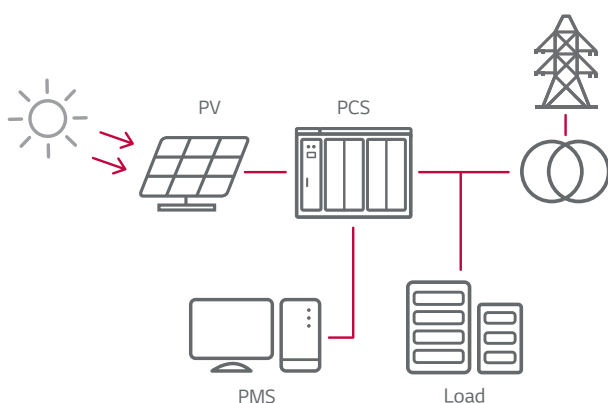


# LG Photovoltaic System

## Power Conditioning System



### Feature & Benefit



#### High Efficiency 98.7%

Applying 3-level topology, LG Electronics supports high efficiency and high quality power.



#### User-friendly HMI

LG Electronics supports the user-friendly HMI with LCD touch screen and UI.



#### Optimized Algorithm

LGE's algorithm optimizes the power generation at the moment of low solar radiation such as early morning to achieve increased total generation time.





#### LG Electronics ESS Business Division

LG Electronics has launched ESS Business Division and started a business in 2014. LG Electronics develops high efficiency PCS, safety battery control, energy management algorithm that adaptable various scenario, and provides a suitable product for the user's request. From design to integration, LG Electronics provides total solution to our customers. We support full range of products; Residential ESS with rooftop solar, Commercial & Industrial ESS for peak control, and Utility ESS such as micro grid, frequency regulation, and renewable integration.

# LG Photovoltaic System

## Power Conditioning System

### Specification

Model		SR25T000N00	SR50T000N00	SR75T000N00	SR01M000N00
					
DC Input	Nominal Input Power (kW)	262	625	938	1,250
	Max. Input Voltage (Vdc)	950 [load : 30%]			
	Max. Input Current (A)	582	1,136	1,705	2,273
	MPPT Voltage Range (Vdc)	450 ~ 850	550 ~ 850	550 ~ 850	550 ~ 850
	Number of MPPT	1			
	Number of DC Input Fuse	1	2	6	8
AC Output	Nominal Output Power (kW)	250	533	800	1,067
	Nominal Output Current (A)	515	934	1,401	1,868
	Nominal Output Voltage (Vac) / Connection Phase	280 ± 10% / 3P3N	330 ± 12% / 3P3N	330 ± 12% / 3P3N	330 ± 12% / 3P3N
	Frequency (Hz)	50 / 60			
	Current Harmonic Distortion (%)	< 2			
	Power Factor	0.99			
Efficiency	Earthing System	IT	IT, TN, TT	IT, TN, TT	IT, TN, TT
	Max. Efficiency (%)	98.7 (at KIER)	99.03 (at KERI)	99.13 (at KERI)	99.07 (at KERI)
	Euro. Efficiency (%)	98.4 (at KIER)	98.86 (at KERI)	98.83 (at KERI)	98.84 (at KERI)
General Data	Dimensions (W/D/H, mm)	1,000 x 675 x 2,035	1,460 x 1,110 x 2,111.6	2,210 x 1,110 x 2,111.6	2,210 x 1,110 x 2,111.6
	Weight (kg)	622	1,850	2,350	2,550
	Operating Temperature Range (°C)	-20 ~ 50			
	Storage Temperature Range (°C)	-20 ~ 60			
	Noise Level (dB)	78	75	75	75
	Consumption in Operation (UPS Option)	< 453W (add < 200W)	< 700W (add < 200W)	< 1kW (add < 200W)	< 1.3kW (add < 200W)
	Consumption in Standby	< 82	< 300	< 300	< 300
	Cooling	Forced Air			
	Relative Humidity (%)	0 ~ 95			
	Max. Altitude (m)	1,000			
	Ground Fault Detection	Yes			
	IP Grade	21			
RTU	Communication	RS-485, CAN, Modbus, etc.			
	Input / Output (CH)	4ch / 4ch			
HMI	Communication	RS-232/422/485, Ethernet			
	Display	TFT LCD & Touch screen			
Certifications	RAM/HDD	1GB / 60GB			
	EMC	Yes			
	CE	Yes			

### Reference Site

**LG Display  
(Paju)**

PCS 7MW



**LG Display  
(Gumi)**

PCS 2.25MW



**LG Hausys  
(Ulsan)**

PCS 1MW

