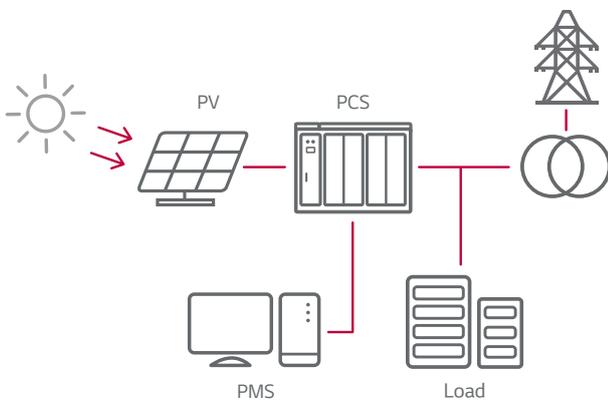


LG Photovoltaic System

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 is developed 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			
	Earthing System	IT	IT, TN, TT	IT, TN, TT	IT, TN, TT
Efficiency	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

