# SAMSUNG

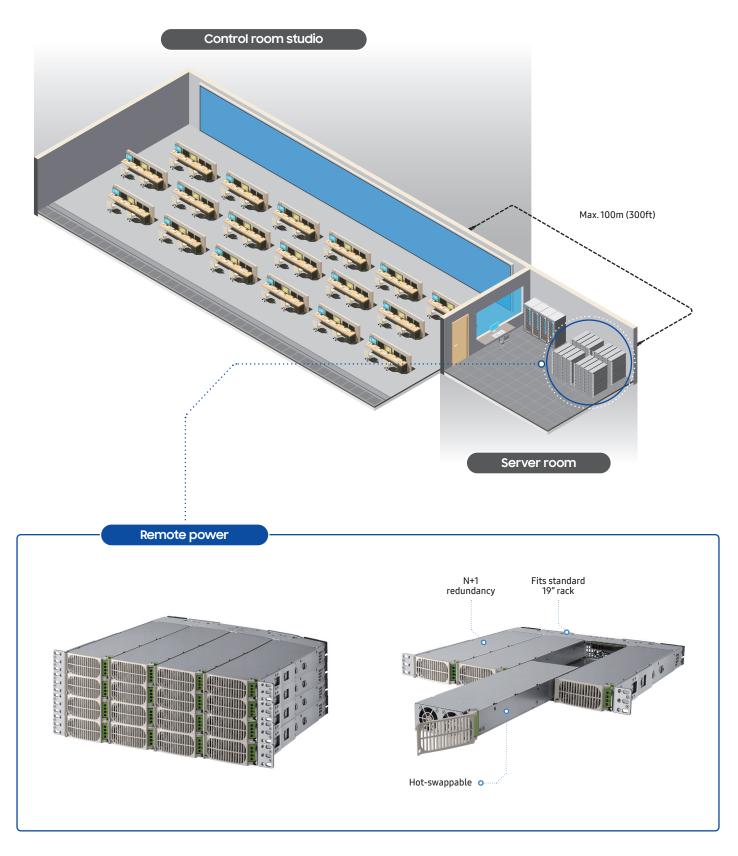
# The Wall Remote power supply solution

Built for mission-critical environments.



### What is remote power?

Remote power, otherwise known as off-board power, is an external power source that can be installed separately from a screen. Due to The Wall's redundant system design, it is not impacted in the event of an unexpected power module failure. The main objective of remote power is to supply power consistently, ensuring zero downtime even in worst case scenarios, especially for mission-critical environments such as control rooms or broadcasting studios.



### Why remote power?

Remote power capabilities protect screens from turning off due to an unexpected power outage. N+1 redundancy secures one additional power module per each N module, protecting against any downtime. In addition, hot swappable functionality enables users to replace broken power modules without turning off the screens, allowing them to continue running for maximum efficiency while the issue is repaired.



High availability

Protect from screen-off by securing one additional power module per each N modules.



**Stable operation** 

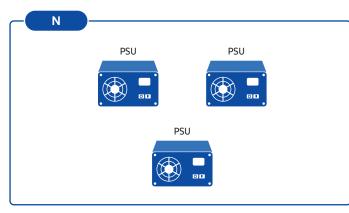
Disperse heat by taking power supply unit out of the screen, reducing surface temperature.



#### Easy maintenance

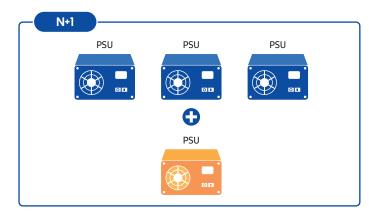
Standard 19" size allows optimal space utilization and hot swappable modules eliminate unnecessary tasks.

#### What is N+1 redundancy?



\* What N refers to varies dependent on situation in which the term is used

\*\* PSU : Power Supply Unit



A design assigned as N means the display was designed only to account for any failure at full load, with zero redundancy added.

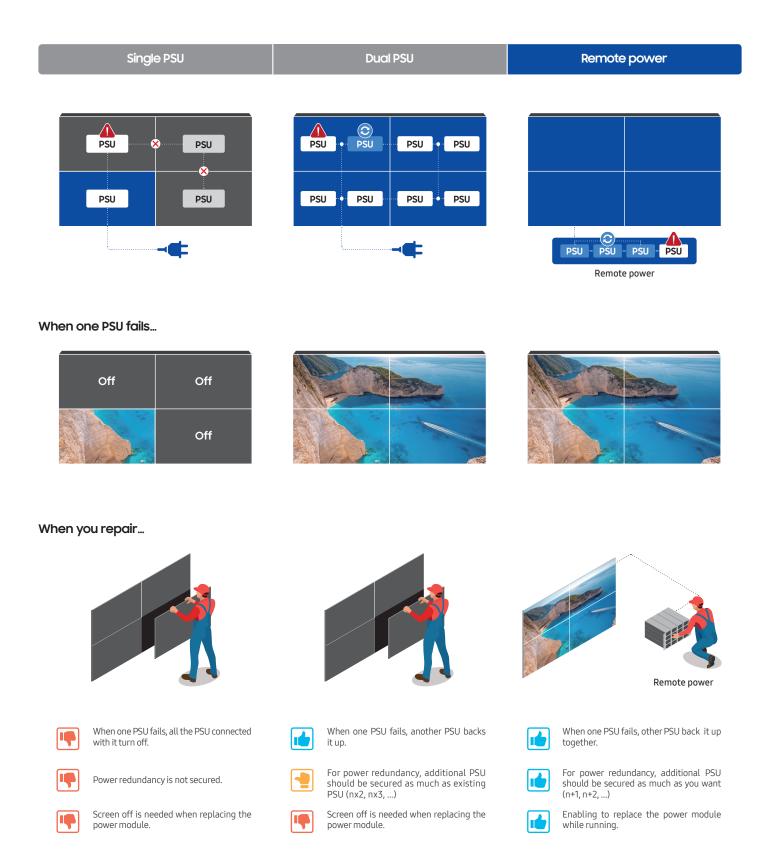
Any mission critical applications will suffer as a result of unexpected outages.

A design assigned N+1 indicates an additional component has been added to support a single failure. The typical design provides one extra unit for every three needed.

Benefitting mission critical applications overall for an optimized solution.

## Comparative advantages of remote power

Remote power is the ideal solution when you need an effective and hot swappable source of power redundancy. When compared with a single PSU, it provides more effective back-up of PSU, along with more secure redundancy. In comparison to a dual PSU, remote power can rely on the power of all other PSU, not just one, with the added capability of being able to replace modules while still running, unlike both single and dual PSU solutions.



## Optimal solution for mission-critical applications

Samsung's The Wall is an optimal solution for mission-critical environments and applications. Control rooms for example, require 24/7 monitoring and analytics capabilities for every minor detail, with downtime not being an option at any time. When considering broadcasting studios, there can be no errors during a live broadcast, with power redundancy being a must-have for total peace of mind and maximum audience engagement.



#### Keep control room operating 24/7 without any downtime

In control rooms, any downtime is critical because every minor detail needs to be monitored in case of an emergency. Remote power options enables your control room to operate 24/7 at maximum performance.



#### Don't worry about screen-off during live broadcast

All the components in a broadcasting studio should be working like a dream, especially when broadcasting live. With remote power options, you have complete peace of mind for a smooth broadcast, every time.

## Specifications

Model -		IWA-R		
		IW008A-R (Remote Power)	IW012A-R (Remote Power)	IW016A-R (Remote Power)
Physical Parameter	Pixel Pitch	0.84 mm	1.26 mm	1.68 mm
	Pixel Configuration	1 red, 1 green, 1 blue	1 red, 1 green, 1 blue	1 red, 1 green, 1 blue
	Configuration (LxH, per cabinet)	960 x 540 pixels	640 x 360 pixels	480 x 270 pixels
	Diode Type	Flip-chip RGB LED	Flip-chip RGB LED	Flip-chip RGB LED
	Dimensions (LxHxD, per cabinet)	806.4 x 453.6 x 36.5 mm / 31.75 x 17.86 x 3.01 in	806.4 x 453.6 x 36.5 mm / 31.75 x 17.86 x 3.01 in	806.4 x 453.6 x 36.5 mm / 31.75 x 17.86 x 3.01 in
	No. of Modules (WxH, per cabinet)	4 x 3	4 x 3	4 x 3
	Weight (per cabinet/per m <sup>2</sup> )	10.5 kg / 28.7 kg / 23.15 lbs / 63.27 lbs	10.5 kg / 28.7 kg / 23.15 lbs / 63.27 lbs	10.5 kg / 28.7 kg / 23.15 lbs / 63.27 lbs
	Brightness (Peak/Max) (1)	1,600 nit / 500 nit	1,600 nit / 800 nit	1,400 nit / 1,000 nit
Optical Parameter	Contrast Ratio (2)	24,000 : 1	24,000 : 1	21,000 : 1
	HDR Compatibility	LED HDR / HDR10+ support / AI Picture	LED HDR / HDR10+ support / AI Picture	LED HDR / HDR10+ support / AI Picture
	Viewing Angle - Horizontal	170°	170°	170°
	Viewing Angle - Vertical	155°	155°	155°
	Bit Depth	16 bit (Internal processing 20bit)	16 bit (Internal processing 20bit)	16 bit (Internal processing 20bit)
	Color Temperature - Default	6,500K ± 500K (Floating bin	6,500K ± 500K (Floating bin)	6,500K ± 500K (Floating bin)
	Color Temperature - Adjustable	2,800K ~ 10,000K (using S-Box)	2,800K ~ 10,000K (using S-Box)	2,800K ~ 10,000K (using S-Box)
	Video Rate	100/120 Hz	100/120 Hz	100/120 Hz
	Input Power Range	48Vdc	48Vdc	48Vdc
	Power Consumption - Max	465 (W/m <sup>2</sup> ) / 170 (W/Cabinet) (TBD)	348 (W/m <sup>2</sup> ) / 127 (W/Cabinet)	361 (W/m <sup>2</sup> ) / 132 (W/Cabinet)
Electrical	Power Consumption - Typ	306 (W/m <sup>2</sup> ) / 112 (W/Cabinet) (TBD)	241 (W/m <sup>2</sup> ) / 88 (W/Cabinet)	244 (W/m²) / 89 (W/Cabinet)
Parameter	Heat Generation - Max	1,586 (BTU/m <sup>2</sup> ) / 580 (BTU/Cabinet) (TBD)	1,185 (BTU/m <sup>2</sup> ) / 434 (BTU/Cabinet)	1,232 (BTU/m <sup>2</sup> ) / 451 (BTU/Cabinet)
	Heat Generation - Typ	1,045 (BTU/m <sup>2</sup> ) / 383 (BTU/Cabinet) (TBD)	822 (BTU/m <sup>2</sup> ) / 301 (BTU/Cabinet)	830 (BTU/m <sup>2</sup> ) / 304 (BTU/Cabinet)
	Refresh Rate (3)	11,520 Hz	11,520 Hz	15,360 Hz
	Power Redundancy	Yes	Yes	Yes
	Working Temperature / Humidity	0°C~+40°C /10%~80%RH	0°C~+40°C / 10%~80%RH	0°C~+40°C / 10%~80%RH
Operational	Storage Temperature / Humidity	-20°C~+45°C / 5%~95%RH	-20°C~+45°C / 5%~95%RH	-20°C~+45°C / 5%~95%RH
Parameter	IP Rating	IP20	IP20	IP20
	LED Lifetime	150,000 hours	150,000 hours	150,000 hours
	Controller	SNOW-AAE	SNOW-AAE	SNOW-AAE
	controller	Optical	Optical	Optical
Connectivity	Connectivity	* HDBT is used for connecting only BT/Wifi module	* HDBT is used for connecting only BT/Wifi module	* HDBT is used for connecting only BT/Wifi module
	Safety	62368-1, 60950-1	62368-1, 60950-1	62368-1, 60950-1
	EMC	Class A	Class A	Class A
Certification	Eye-protection	TUV Eye Comfort	TUV Eye Comfort	TUV Eye Comfort
	Fire-protection	N/A	N/A	N/A
Service	Service	Front	Front	Front
	Operating System	Tizen 6.0	Tizen 6.0	Tizen 6.0
	MagicINFO	Yes	Yes	Yes
Features	Sensor	Temperature	Temperature	Temperature
reduies	Other	Eco Image Enhancer, 3D mode	Eco Image Enhancer, 3D mode	Eco Image Enhancer, 3D mode
	Smart Function	Multiview, Screen-mirroring	Multiview, Screen-mirroring	Multiview, Screen-mirroring
Accessories	Accessories	Décor Frame (Standard), Frame Kit	Décor Frame (Standard), Frame Kit	Décor Frame (Standard), Frame Kit
	Box Dimension (mm, WxHxD)	927 x 161 x 592 mm	927 x 161 x 592 mm	927 x 161 x 592 mm
Package	Package Weight (per cabinet)	14.2 kg	14.2 kg	14.2 kg
	Curve	Concave(6000R), Convex(6000R), L-type	Concave(6000R), Convex(6000R), L-type	Concave(6000R), Convex(6000R), L-type
Special	Inclination	Forward, Ceiling	Forward, Ceiling	Forward, Ceiling
Installation	Rotation	N/A	N/A	N/A
Installation	Other (4)	Hanging, Stacking, Dual-sided, Movable	N/A Hanging, Stacking, Dual-sided, Movable	N/A Hanging, Stacking, Dual-sided, Movable
	o IDMS (Information Display Measurement 9		Hanging, Stacking, Date Stace, Hoveble	Hanging, Stacking, Duar Stace, Hovable

Peak value according to IDMS (Information Display Measurement Standard)
Measured under10lux light. Contrast in darkroom exceeds 1000000:1
Referring to visual refresh rate
Optional structure required

Model Name		VG-RPW (Remote Power Supply Kit)	
Physical Parameter	Туре	1RU rack mount; 19" rack	
	Configuration	4 power modules per shelf	
	Dimensions (mm, WxLxH)	482.6 x 429.5 x 43.4 mm	
	Weight	14.25 kg	
Electrical Parameter	Input Voltage	100~120Vac / 200~277Vac	
	Output Voltage	48Vdc	
	Output Power	6000W / 100~120Vac 14000W / 200~277Vac	
	Efficiency	90% Min. (240Vac@25°C)	
	Heat Dissipation	760W/2592BTU @ 80% load 1000W/3412BTU @ 100% load	
	Power Redundancy	3+1 redundancy per shelf	
	Hot Swap	Supported for each power module	
	Working Temperature / Humidity	-40°C~+50°C / 5%~95%RH	
Operational Pa-	Storage Temperature / Humidity	-40°C-+85°C / 5%~95%RH	
rameter	Operating Altitude	1500m max	
	Audible Noise	55dbA typ, full load	
	Air Flow Direction	Front to rear	
	Lifetime	10 years (Full load, excluding fans)	
	Safety	60950-1, UL, CE, CB	
Certification	EMC	Class A	
	Earthquake Requirements	Zone 4	

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