

Minleon Legacy RGB vs. Minleon RGB Plus Line

New for 2017, Minleon's RGB Plus Line, simply put, is better, more stable and advanced technology. With new internal IC chips & Quick-Lock Connectors, it is primed to greatly improve the efficiency of RGB installations & troubleshooting. Herein is a preliminary comparason between Minleon's existing RGB line and the new RGB Plus Line. Figures are approximate as of May 1, 2017. Please contact your Minleon Account Manager when placing your order.

	<u>Legacy</u>	<u>Plus</u>	<u>Plus Line notes:</u>
<u>Lights/Chip</u>			
LED Type	RGB	RGB	
Chip Initialization	Not visable, or Green	Blue flash, then dark	
Dimming/Greyscale	12-bit chip	16-bit/color chip	(48 bits/light) improved dimming & blending
Operating Voltage	12 VDC	12 VDC	
Current	0.030 Amps	0.028 Amps	
Power	0.36 watts/bulb	0.34 watts/bulb	
Power Up Intialization Required	yes	no	
Lights (Pebbles, C7's etc.)/String	100	110	
G42 TrikLits/String	80-100	100	
G28 TrikLits/String	n/a	100	
TrikLits Wire Gauge	22 AWG, 3C, UV protected	22 AWG, 3C, UV protected	
Pebbles, C7's, G40's etc. Wire Gauge	20 AWG, 3C, UV protected	20 AWG, 3C, UV protected	
Recycle Power during Install & Troubleshooting	often	less often	
<u>Connectors</u>			
Type	screw-in	twist & lock	
Diameter	7/8-inch	5/8-inch	
Length	1 7/8-inches	1 7/8-inches	
<u>NDB</u>			
User-Interface	yes	yes, improved	accessible after light show stops
e1.31 unicast support	no	yes	
Art-Net v4 synchronizaion support	no	yes	
Upgrade Firmware from U-I	no	yes	

Re-Set Button to Factory Default	no	yes	3-function
Reverse Lights (on a string)	no	yes	
Smart T limits	yes	20	
Input Power	12 VDC	12 or 24 VDC	5 VDC is also possible by changing internal jumpers. Contact the factory for more info.
Max Input Power	20 Amps per side	20 Amps per side	
Fuse Type (per output)	5-Amp ATM	5-Amp ATM	
Red LED Indicating Blown Fuse	yes	yes	When lights are connected to that specific output
Max Lights per NDB	1530	1600+	Max T.B.D.
8-port Mode	no	yes	
Max Lights per Output port	800	230 in 16-port mode; 460 in 8-port mode	Signal support only, power injection needed >100-110L
UL listed	yes	yes	
IP Rating	IP 24	IP 24	
<u>New 4-port NDB+</u>			
Outputs	-	4	
Max lights	-	350	
Reverse Strings option for Perimeter Lighting	-	yes	
PSU included	-	Meanwell / 10Amp output	
PSU hard-wired	-	yes	
Input Power	-	120 VAC	
Max Input Power	-	1.4 Amps	
Fuse Type (per output)	-	5-Amp ATM	
Easy access to Fuses	-	yes	
Spare Fuse	-	yes	
IP Rating	-	IP 56	

Controllers/Accessories

Mini-Controller		new connector, no change otherwise
Wireless Effects (WEC)		new connector, no change otherwise
Basic T		new connector, no change otherwise
Smart T		new connector, new limits in NDB config.
Power T		new connector, no data conditioning function
Power T placement	after 75-100L	anywhere, compatible with NDB+
Data Boosters		new connectors, wider voltage range
Copy T		discontinued

Compatible Components Across Systems*

Network Effects Controller (NEC)	RGB-NEC
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Minleon Show Controller	RGB-SC
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Mini-Controller Remote Control	RGBRM-03
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12 VDC Power Supplies RGB1.5A, RGB5A, etc.	≤40 Amps
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Non-Compatible Components Across Systems

All other items*

*NDB's from *both* product lines can be *configured together & controlled simultaneously* with a single Minleon Network Effects Controller, or third party Art-Net software, via third party Network Switch. WEC's from *both* product lines can be *synched together* via Minleon's ***WEC-Mate*** App, or when networked together.