

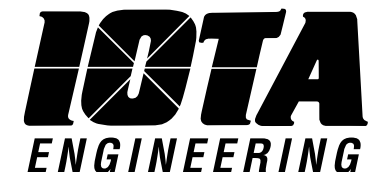
DLS Series Models	13 VOLT DLS					
	DLS-15 SERIES M	DLS-30 SERIES M	DLS-45 SERIES M	DLS-55 SERIES M	DLS-75	DLS 90[†]
DC Output Voltage (No Load) approx.	13.6V (DC)	13.6V (DC)	13.6V (DC)	13.6V (DC)	13.6V (DC)	13.6V (DC)
Output Voltage Tolerance (No Load)	+ or - .7%	+ or - .7%	+ or - .7%	+ or - .7%	+ or - .7%	+ or - .7%
Output Amperage, Max Continuous	15 Amps	30 Amps	45 Amps	55 Amps	75 Amps	90 Amps
Output Voltage (Full Load) approx.	>13.4V (DC)	>13.4V (DC)	>13.4V (DC)	>13.4V (DC)	>13.4V (DC)	>13.4V (DC)
Maximum Power Output, Continuous	200 Watts	400 Watts	600 Watts	750 Watts	1000 Watts	1200 Watts
Ripple and Noise	<50 mV rms	<50 mV rms	<50 mV rms	<50 mV rms	<100 mV rms	<150 mV rms
Input Voltage Range	108 - 132 AC	108 - 132 AC	108 - 132 AC	108 - 132 AC	108 - 132 AC	108 - 132 AC
Input Voltage Frequency	47-63	47-63	47-63	47-63	47-63	47-63
Maximum AC Current (@108Vac)	3.5 Amps	7 Amps	11 Amps	12 Amps	17 Amps	21 Amps [‡]
Typical Efficiency	>80%	>80%	>80%	>80%	>80%	>80%
Max Inrush Current, Single Cycle	30 Amps	30 Amps	40 Amps	40 Amps	50 Amps	50 Amps
Short Circuit Protection	Yes	Yes	Yes	Yes	Yes	Yes
Overload Protection	>100%	>100%	>100%	>100%	>100%	>100%
Line Regulation	100 mV rms	100 mV rms	100 mV rms	100 mV rms	100 mV rms	100 mV rms
Load Regulation	<1%	<1%	<1.5%	<1.5%	<1.5%	<1.5%
Fan Control*	PROPORTIONAL	PROPORTIONAL	PROPORTIONAL	PROPORTIONAL	PROPORTIONAL	PROPORTIONAL
Thermal Protection	YES	YES	YES	YES	YES	YES
Working Temperature Range	0° - 40° C	0° - 40° C	0° - 40° C	0° - 40° C	0° - 40° C	0° - 40° C
Storage Temperature	-20° to 80° C	-20° to 80° C	-20° to 80° C	-20° to 80° C	-20° to 80° C	-20° to 80° C
Withstand Voltage	1240V @ leads	1240V @ leads	1240V @ leads	1240V @ leads	1240V @ leads	1240V @ leads
Dimensions**	9.7" x 6.7" x 3.4"	9.7" x 6.7" x 3.4"	9.7" x 6.7" x 3.4"	9.7" x 6.7" x 3.4"	13" x 6.5" x 3.4"	13" x 6.5" x 3.4"
Weight	5.0 lbs	5.0 lbs	5.0 lbs	5.0 lbs	7.8 lbs	7.8 lbs

* Proportional = Fan speed proportional to case temperature

[†] This unit is not UL Listed

**Detailed Mounting Specifications available online.

[‡] Requires 30A breaker



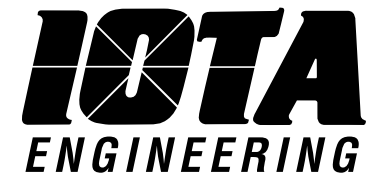
DLS RATINGS AND SPECIFICATIONS

DLS Series Models	27 VOLT DLS				48 VOLT DLS[†]	
	DLS 27-15	DLS 27-25	DLS 27-40	DLS 220-27-40	DLS 48-20	DLS 54-13
DC Output Voltage (No Load) approx.	27.2V (DC)	27.2V (DC)	27.2V (DC)	27.2V (DC)	48V (DC)	54.4V (DC)
Output Voltage Tolerance (No Load)	+ or - .5%	+ or - .5%	+ or - .5%	+ or - .5%	+ or - .5%	+ or - .5%
Output Amperage, Max Continuous	15 Amps	25 Amps	40 Amps	40 Amps	20 Amps	13 Amps
Output Voltage (Full Load) approx.	>27.0V (DC)	>27.0V (DC)	>27.0V (DC)	>27.0V (DC)	>47.8V (DC)	>54V (DC)
Maximum Power Output, Continuous	400 Watts	675 Watts	1100 Watts	1100 Watts	950 Watts	800 Watts
Ripple and Noise	<50 mV rms	<50 mV rms	<50 mV rms	<50 mV rms	<50 mV rms	<50 mV rms
Input Voltage Range	108 - 132 AC	108 - 132 AC	108 - 132 AC	220 - 240 AC	108 - 132 AC	108 - 132 AC
Input Voltage Frequency	47-63	47-63	47-63	47-63	47-63	47-63
Maximum AC Current (@108VAC)	7 Amps	12 Amps	20 Amps	10 Amps	15 Amps	14 Amps
Typical Efficiency	>80%	>80%	>80%	>80%	>80%	>80%
Max Inrush Current, Single Cycle	30 Amps	40 Amps	50 Amps	27 Amps	50 Amps	50 Amps
Short Circuit Protection	Yes	Yes	Yes	Yes	Yes	Yes
Overload Protection	>100%	>100%	>100%	>100%	>100%	>100%
Line Regulation	100 mV rms	100 mV rms	100 mV rms	100 mV rms	100 mV rms	100 mV rms
Load Regulation	<1%	<1%	<1%	<1%	<1%	<1%
Fan Control*	PROPORTIONAL	PROPORTIONAL	PROPORTIONAL	PROPORTIONAL	PROPORTIONAL	PROPORTIONAL
Thermal Protection	YES	YES	YES	YES	YES	YES
Working Temperature Range	0° - 40° C	0° - 40° C	0° - 40° C	0° - 40° C	0° - 40° C	0° - 40° C
Storage Temperature	-20° to 80° C	-20° to 80° C	-20° to 80° C	-20° to 80° C	-20° to 80° C	-20° to 80° C
Withstand Voltage	1240V @ leads	1240V @ leads	1240V @ leads	1240V @ leads	1240V @ leads	1240V @ leads
Dimensions**	9.7" x 6.7" x 3.4"		13" x 6.5" x 3.4"	13" x 6.5" x 3.4"	13" x 6.5" x 3.4"	9.7" x 6.7" x 3.4"
Weight	5.0 lbs	5.0 lbs	7.8 lbs	7.8 lbs	7.8 lbs	5.0 lbs

* Proportional = Fan speed proportional to case temperature

[†] Units are not UL Listed

**Detailed Mounting Specifications are available online.



DLS RATINGS AND SPECIFICATIONS

DLS Series Models	220 VOLT DLS			DC to DC Conversion	
	DLS 220-30	DLS 220-45	DLS 220-55	DC-48-12[†]	
DC Output Voltage (No Load) approx.	13.6V (DC)	13.6V (DC)	13.6V (DC)	DC Output Voltage (No Load)	13.5V (DC)
Output Voltage Tolerance (No Load)	+ or - .7%	+ or - .7%	+ or - .7%	Output Voltage Tolerance (No Load)	+ or - 100mV
Output Amperage, Max Continuous	30 Amps	45 Amps	55 Amps	Output Amperage, Max Continuous	20 Amps
Output Voltage (Full Load) approx.	>13.4V (DC)	>13.4V (DC)	>13.4V (DC)	Output Voltage (Full Load) approx.	>13.0V (DC)
Maximum Power Output, Continuous	400 Watts	600 Watts	750 Watts	Maximum Power Output, Continuous	260 Watts
Ripple and Noise	<50 mV rms	<50 mV rms	<50 mV rms	Ripple and Noise	<50 mV rms
Input Voltage Range	220 - 240 AC	220 - 240 AC	220 - 240 AC	Input Voltage Range (normal)	39-54VDC
Input Voltage Frequency	47-63	47-63	47-63	Input Voltage (min - max)	0-75VDC
Maximum AC Current (@216Vac)	3.5 Amps	5.5 Amps	6.5 Amps	Maximum Input Current ^{††}	10A DC
Typical Efficiency	>80%	>80%	>80%	Typical Efficiency	>82%
Max Inrush Current, Single Cycle	27 Amps	27 Amps	27 Amps	Max Inrush Current	6A
Short Circuit Protection	Yes	Yes	Yes	Short Circuit Protection	Yes
Overload Protection	>100%	>100%	>100%	Overload Protection	>100%
Line Regulation	100 mV rms	100 mV rms	100 mV rms	Line Regulation	<100 mV rms
Load Regulation	<1.5%	<1.5%	<1.5%	Load Regulation	<4%
Fan Control*	PROPORTIONAL	PROPORTIONAL	PROPORTIONAL	Heatsink	<0.5° C/w
Thermal Protection	YES	YES	YES	Thermal Protection	YES
Working Temperature Range	0° - 40° C	0° - 40° C	0° - 40° C	Operating Temperature Range	0 - 50° C
Storage Temperature	-20° to 80° C	-20° to 80° C	-20° to 80° C	Storage Temperature	-20° to 80° C
Withstand Voltage	1240V @ leads	1240V @ leads	1240V @ leads	Withstand Voltage	500 VDC
Dimensions**	9.7" x 6.7" x 3.4"			Dimensions	9.5" x 2.25" x 2.125"
Weight	5.0 lbs	5.0 lbs	5.0 lbs	Weight	3.1 lbs

* Proportional = Fan speed proportional to case temperature

**Detailed Mounting Specifications are available online.

[†] Units are not UL Listed

^{††} No internal fuse; unit must be protected by a 15A external fuse

