

DLS Specifications

DLS-Series Models	DLS-15	DLS-30	DLS-45	DLS-55	DLS-75	DLS 90[†]
DC Output Voltage (No Load) approx.	13.6 V (DC)	13.6 V (DC)	13.6 V (DC)	13.6 V (DC)	13.6 V (DC)	13.6 V (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.	>13.4 V (DC)	>13.4 V (DC)	>13.4 V (DC)	>13.4 V (DC)	>13.4 V (DC)	>13.4 V (DC)
Maximum Power Output, Continuous	200 Watts	400 Watts	600 Watts	740 Watts	1000 Watts	1210 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	13 Amps	17 Amps	21 Amps [‡]
Typical Efficiency	>80%	>80%	>80%	>80%	>80%	>80%
Max Inrush Current, Single Cycle	8 Amps	16 Amps	20 Amps	20 Amps	22 Amps	40 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*	N/A	PROPORTIONAL	PROPORTIONAL	PROPORTIONAL	PROPORTIONAL	PROPORTIONAL
Thermal Protection	YES	YES	YES	YES	YES	YES
Working Temperature Range	0 - 40C	0 - 40C	0 - 40C	0 - 40C	0 - 40C	0 - 40C
Storage Temperature	-20 to 80C	-20 to 80C	-20 to 80C	-20 to 80C	-20 to 80C	-20 to 80C
Withstand Voltage	1240V @ leads	1240V @ leads	1240V @ leads	1240V @ leads	1240V @ leads	1240V @ leads
Dimensions**	7" x 6.5" x 3.5"				10" x 6.5" x 3.5"	10" x 6.5" x 3.5"
Weight	5.0 lbs	5.5 lbs	5.5 lbs	5.5 lbs	7.8 lbs	7.8 lbs

* Proportional = Fan speed proportional to case temperature

**Detailed Mounting Specifications available online.

† This unit is not UL Listed

‡ Requires 30A breaker

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DLS-Series Models	27 VOLT DLS			36 VOLT DLS[†]	42 VOLT DLS[†]	48 VOLT DLS[†]		54 VOLT DLS[†]
	DLS 27-15	DLS 27-25	DLS 27-40[‡]	DLS 36-20	DLS 42-18	DLS 48-15	DLS 48-20	DLS 54.4-15
DC Output Voltage (No Load) approx.	27.2 V (DC)	27.2 V (DC)	27.2 V (DC)	36V (DC)	40.8V (DC)	48V (DC)	48V (DC)	54.4V (DC)
Output Voltage Tolerance (No Load)	+ or - .5%	+ or - .5%	+ or - .5%	+ or - .5%	+ or - .5%	+ or - .5%	+ or - .5%	+ or - .5%
Output Amperage, Max Continuous	15 Amps	25 Amps	40 Amps	20 Amps	18 Amps	15 Amps	20 Amps	15 Amps
Output Voltage (Full Load) approx.	>27.0V (DC)	>27.0 V (DC)	>27.0 V (DC)	>35.8V (DC)	>41.8V (DC)	>47.8V (DC)	>47.8V (DC)	>54V (DC)
Maximum Power Output, Continuous	400 Watts	675 Watts	1100 Watts	720 Watts	750 Watts	720 Watts	960 Watts	816 Watts
Ripple and Noise	<50 mV rms	<50 mV rms	<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	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	47-63	47-63
Maximum AC Current	7.0 Amps	11.6 Amps	20 Amps	11.6 Amps	12.0 Amps	11.6 Amps	15 Amps	12.85 Amps
Typical Efficiency	>80%	>80%	>80%	>80%	>80%	>80%	>80%	>80%
Max Inrush Current, Single Cycle	8 Amps	16 Amps	20 Amps	25 Amps	25 Amps	25 Amps	32 Amps	30 Amps
Short Circuit Protection	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Overload Protection	>100%	>100%	>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	100 mV rms	100 mV rms
Load Regulation	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%
Fan Control*	PROPORTIONAL	PROPORTIONAL	PROPORTIONAL	PROPORTIONAL	PROPORTIONAL	PROPORTIONAL	PROPORTIONAL	PROPORTIONAL
Thermal Protection	YES	YES	YES	YES	YES	YES	YES	YES
Working Temperature Range	0 - 40C	0 - 40C	0 - 40C	0 - 40C	0 - 40C	0 - 40C	0 - 40C	0 - 40C
Storage Temperature	-20 to 80C	-20 to 80C	-20 to 80C	-20 to 80C	-20 to 80C	-20 to 80C	-20 to 80C	-20 to 80C
Withstand Voltage	1240V @ leads	1240V @ leads	1240V @ leads	1240V @ leads	1240V @ leads	1240V @ leads	1240V @ leads	1240V @ leads
Dimensions**	7" x 6.5" x 3.5"		10" x 6.5" x 3.5"	7" x 6.5" x 3.5"	7" x 6.5" x 3.5"	7" x 6.5" x 3.5"	10" x 6.5" x 3.5"	10" x 6.5" x 3.5"
Weight	5.5 lbs	5.5 lbs	7.8 lbs	5.5 lbs	5.5 lbs	5.5 lbs	7.8 lbs	7.8 lbs

* Proportional = Fan speed proportional to case temperature

**Detailed Mounting Specifications are available online.

†Units are not UL Listed

‡ Can be used as 24V 50 Amp unit

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DLS Specifications

DLS-Series Models	220 VOLT DLS		
	DLS-220-30 †	DLS-220-45 †	DLS-220-55 †
DC Output Voltage (No Load) approx.	13.6 V (DC)	13.6 V (DC)	13.6 V (DC)
Output Voltage Tolerance (No Load)	+ or - .7%	+ or - .7%	+ or - .7%
Output Amperage, Max Continuous	30 Amps	45 Amps	55 Amps
Output Voltage (Full Load) approx.	>13.4 V (DC)	>13.4 V (DC)	>13.4 V (DC)
Maximum Power Output, Continuous	550 Watts	820 Watts	1000 Watts
Ripple and Noise	<50 mV rms	<50 mV rms	<50 mV rms
Input Voltage Range	220 - 240 AC	220 - 240 AC	220 - 240 AC
Input Voltage Frequency	47-63	47-63	47-63
Maximum AC Current (@220Vac)	4.70 Amps	6.75 Amps	8.2 Amps
Typical Efficiency	>80%	>80%	>80%
Max Inrush Current, Single Cycle	27 Amps	27 Amps	27 Amps
Short Circuit Protection	Yes	Yes	Yes
Overload Protection	>100%	>100%	>100%
Line Regulation	100 mV rms	100 mV rms	100 mV rms
Load Regulation	<1.5%	<1.5%	<1.5%
Fan Control*	PROPORTIONAL	PROPORTIONAL	PROPORTIONAL
Thermal Protection	YES	YES	YES
Working Temperature Range	0 - 40C	0 - 40C	0 - 40C
Storage Temperature	-20 to 80C	-20 to 80C	-20 to 80C
Withstand Voltage	1240V @ leads	1240V @ leads	1240V @ leads
Dimensions**	7" x 6.5" x 3.5"		
Weight	5.5 lbs	5.5 lbs	5.5 lbs

* Proportional = Fan speed proportional to case temperature

**Detailed Mounting Specifications available online.

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