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TECHNOLOGY GROUP

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Find the *TDK-Lambda DRP60-1* at our website: *Click HERE*

TDK·Lambda DRP Series

60-1080 W Single Output Din Rail Mount Power Supplies

Features

- Single or Three Phase Input
- Power Factor Corrected >120W
- Up to 92% Efficiency
- High Overload Current
- Rapid Connection
- VDE0160/W2 Input Transient Protection
- Conducted EMI B
- Peak Power Capability
- International Safety Agency Approvals
- UL508 Approvals
- PFC compliant to EN61000-3-2
- 2 year warranty



Specifications

Model		DPP480-xx-1
AC Input Voltage & Frequency	-	110 / 220 VAC user selectable on " - 1 " models (Auto select on DRP600-1) ; 340 - 575 VAC on "-3" models (340 - 479 on DRP480-3); 408 - 576 VAC on DRP480-3H; 47-63Hz.
Input / Inrush Current	-	See input ratings table
Efficiency	%	87 - 92% typical @ 230 VAC & full load (@ 400 VAC on " - 3 " models)
Power Factor Correction	-	Compliant to EN61000-3-2 on all models except DRP60-1
Conducted / Radiated EMI	-	EN55022 level B
EMC	-	EN50081-1 and -2 (Emissions), EN50082-1 and -2 (Immunity)
Output Voltage	V	24 to 28 VDC adjustable by front panel potentiometer (24V +5% / -1% fixed on DRP60-1)
Overcurrent Protection (typical)	A	DRP60-1 : 2.6 - 3.9A, DRP120-3 : 6.5 - 11A, DRP144-1 : 6.5 - 10.3A, DRP288 : 12.5 - 16A, DRP600 : 26A, DRP480 : 25.6A, DRP720-3 : 32A, DRP960 : 47A
Overvoltage Protection	V	32V ±10% typical. Unit goes into hiccup mode.
Output Load Regulation	%	Less than 2%
Output Line Regulation	%	Less than 2%
Ripple & Noise (20MHz bandwidth)	mV	<25 mV pp on DRP 60/120/480/720; <30mV pp on DRP288/600; <50mV pp on DRP960
Hold Up Time	ms	>20ms @ 196 VAC on DRP 60/120/144/288 ; >30ms @ 120 VAC on DRP600-1; >11ms @ 400 VAC on DRP 480/600-3/720; >15ms @400 VAC on DRP960
Transient Protection	-	Transient resistance according to VDE0160/W2 (1300V/1.3 ms on DRP 480/720/960), (750V/1.3 ms on DRP 60/144/288/600), for all load conditions
Parallel Operation	-	Up to 10 DRP units may be connected in parallel (DRP 480/600/720/960 models only)
Operating Temperature	°C	0°C to +60°C full load on DRP 60 - 960, (0C to +50C on DRP144-1). Derate from 60°C - 70°C.
Storage Temperature	°C	-25°C to +85°C
Cooling	-	Convection cooled
Ventilation Free Space	mm	>70mm needed under & above unit. >25mm needed left & right of unit.
Input / Output Terminals	-	Screw terminals. Input connector size range: 1.5-6mm sq. (solid), 1.5-4mm sq. (flexible).
Mounting	-	On Din Rail types TS35 / 7.5mm (9535 / 7.5) or TS35 / 15mm (9535 / 15). Optional backplane mounting via screw mounting set DRS01, 2 required per unit.
Case	-	Robust metal housing with fine ventilating grid to keep out small parts (ex. Screws)
Safety Agency Approvals	-	UL508, UL1950, CSA22.2 No.950-M90, EN60950, EN50178, CE Marked for LVD
Size / Weight	-	See dimensions & weights specification table
Warranty	yrs	Two Years

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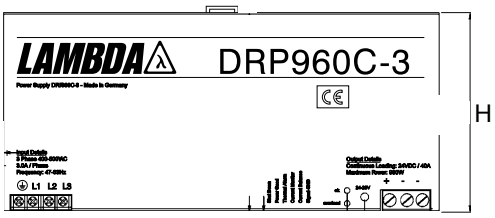
Model Selector

Model	Maximum Power	Input VAC	Output VDC	Output Current @60C	Peak Current <30 sec
DRP60-1	60W	115 / 230V	24V	2.5A	2.5A
DRP144-1	144W	115 / 230V	24V**	5A	6A
DRP120-3	144W	3PH 400 / 480V	24V**	5A	6A
DRP288-1	288W	115 / 230V	24V**	10A	12A
DRP288-3	288W	3PH 400/480V	24V**	10A	12A
DRP600-1	600W	115 / 230V*	24V**	20A	25A
DRP600-3	600W	3PH 400/480V	24V**	20A	25A
DRP480-3	600W	3PH 400V	24V**	20A	25A
DRP480-3H	600W	3PH 480V	24V**	20A	25A
DRP720-3	720W	3PH 400 / 480V	24V**	30A	30A
DRP960-3	1080W	3PH 400 / 480V	24V**	40A	45A
DRP960C-3***	1080W	3PH 400 / 480V	24V**	40A	45A

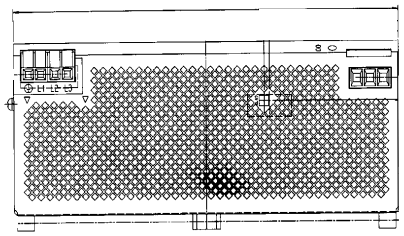
* 115 / 230 VAC autorange ** Adjustable 24 - 28V via potentiometer *** Active current sharing

DRP Outline Drawing

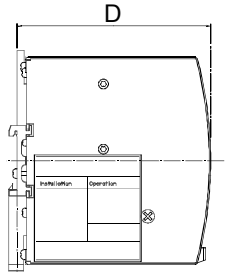
DRP960



W



D



Dimensions and Weights

Model	W	H	Depth	Weight
DRP60-1	50	125	103mm (+DIN Rail)	0.46 kg
DRP120-3	73	125	120mm (+DIN Rail)	0.73 kg
DRP144-1	65	125	103mm (+DIN Rail)	0.62 kg
DRP288-1	122	125	103mm (+DIN Rail)	0.98 kg
DRP288-3	89	125	117mm (+DIN Rail)	0.98 kg
DRP480	220	125	103mm (+DIN Rail)	1.8 kg
DRP600-1	220	125	103mm (+DIN Rail)	1.8 kg
DRP600-3	150	125	121mm (+DIN Rail)	1.8 kg
DRP720-3	240	125	113mm (+DIN Rail)	2.0 kg
DRP960	275	125	118mm (+DIN Rail)	3.3 kg

Dimensions and Weights

Model	Input Current 115VAC	Input Current 230VAC	Inrush Current (Typical@cold start)
DRP60-1	< 1.3A	< 0.7A	< 25A (264 VAC)
DRP144-1	< 2.6A	< 1.2A	< 15A (264 VAC)
DRP288-1	< 6A	< 2.8A	< 30A (264 VAC)
DRP600-1	< 12A	< 6A	< 85A (264 VAC)
DRP120-3	3 x 0.5A		< 25A (575 VAC)
DRP288-3	3 x 0.7A		< 50A (400VAC)
DRP480-3	3 x 1.5A		< 15A (440 VAC)
DRP480-3H	3 x 1.5A		< 17A (480 VAC)
DRP600-3	3 x 1.5A		---
DRP720-3	3 x 2A		< 17A (576 VAC)
DRP960	3 x 3A		< 30A (440 VAC)

Other Industrial Products

JWS	50 - 150W
NES	60 - 240W
JFS	500 - 1000W

For Additional Information, please visit
us.tdk-lambda.com/lp/products/nes-drp.htm

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