

ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
(217) 352-9330 | sales@artisantg.com | artisantg.com

Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

All trademarks, brand names, and brands appearing herein are the property of their respective owners.

Visit our website - *Click HERE*

DSP Series Datasheets





DSP Series

Pages 1 – 2

DSP/277A2 Series

Pages 3 – 4

TDK·Lambda DSP Series

7.5-100W Low Profile DIN Rail Mount Power Supplies

Features

- Low Profile for Building Automation
- 5V to 24V Outputs
- Wide Range AC Input
- UL1310 Class 2(1)
- Class II Double Insulation
- -25 to +71°C Operation



Key Market Segments & Applications

Industrial

RoHS

Specifications

Model		DSP10	DSP30	DSP60	DSP100
AC Input Voltage range	VAC	90 - 264VAC, Class II double insulated (No ground connection required)			
Input Frequency	Hz	47 - 63Hz			
DC Input Voltage range	VDC	120 - 370VDC*			
Inrush Current (115 / 230VAC)	A	15 / 30A	25 / 50A	30 / 60A	30 / 60A
Power Factor & Flicker	-	Meets EN61000-3-2, EN61000-3-3			
Input Current (Rated)	A	0.3A	0.8A (5V: 0.6A)	1.5A (5V: 1A)	5V:1.5A,12-15V:1.7A,24V:2.2A
Output Voltage Accuracy	%	±1% of Nominal			
Line Regulation	%	1%			
Load Regulation	%	1%			
Ripple and Noise (20MHz BW)	mV	50mV			
Overcurrent Protection (Typ)	-	110 - 160%, fold forward under short circuit (DSP100-24/C2 102-108%)			
Overvoltage Protection	V	120 - 145%			
Hold Up Time (115VAC input)	ms	See Model Selector			
LED Indicators	-	Green LED = On, Red LED = DC Output Low			
Operating Temperature	°C	-25 to +71°C (Derate linearly 2.5%/°C from 55 to 71°C)			
Temperature Coefficient	%/°C	±0.02%/°C			
Storage Temperature	°C	-25 to +85°C			
Operating Humidity	-	20 - 95% RH (non condensing)			
Cooling	-	Convection			
Withstand Voltage	-	Input to Output 3kVAC for 1 min.			
Isolation Resistance	-	>100M at 25°C & 70%RH, Input to Output 500VDC			
Vibration (tested on the rail)		IEC 60068-2-6 (Random wave, 10-500 Hz, 1Grms, ea. X, Y, Z axis, 20 min each axis)			
Shock (tested off the rail)		IEC 60068-2-27 (Half sine wave, 4G, 22ms, 3 axes, 6 Faces, 3 times for each face)			
Safety Agency Approvals	-	UL508, UL1310 Class 2(1), IEC/UL/CSA/EN62368-1, 60950-1, CE Mark			
Immunity	-	EN61000-4-2, -3, -4, -5, -6, -8 & -11			
Conducted & Radiated EMI	-	DSP10: EN55022 Class B; DSP30-100: EN55022 Class A			
Weight (Typ)	g	60	200	250	320
Size (WxHxD)	in	0.71 x 3.58 x 2.19”	2.09 x 3.58 x 2.19”	2.8 x 3.58 x 2.19”	3.54 x 3.58 x 2.24”
Case material	-	Flame Retardant Polycarbonate (UL94 V-0)			
Warranty	yrs	Three years			

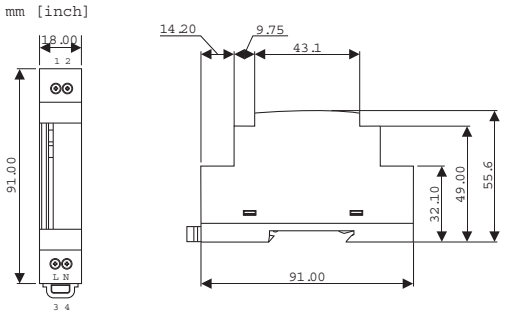
(1) See model selector on page 2.

*Safety certified for AC only

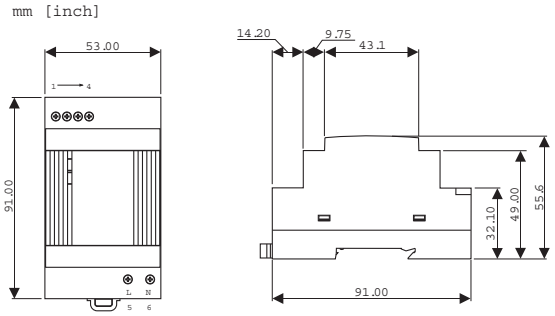
Model Selector

Model	Voltage (V)	Voltage Adjust (V)	Current (A)	Power (W)	Efficiency (Typ %)	Hold Up Time 115VAC in (ms)	UL1310 Class 2
DSP10-5	5	None	1.50	7.5	74	10	Yes
DSP30-5	5	5 - 5.5	3.00	15.0	74	25	Yes
DSP60-5	5	5 - 5.5	7.00	35.0	80	16	-
DSP10-12	12	None	0.83	10.0	78	10	Yes
DSP30-12	12	12 - 14	2.10	25.2	82	25	Yes
DSP60-12	12	12 - 14	4.50	54.0	84	16	Yes
DSP100-12	12	12 - 14	6.00	72.0	82	16	-
DSP10-15	15	None	0.67	10.1	78	60	Yes
DSP30-15	15	13.5 - 16.5	2.00	30.0	83	25	Yes
DSP60-15	15	13.5 - 16.5	4.00	60.0	85	12	Yes
DSP100-15	15	13.5 - 16.5	5.00	75.0	85	16	-
DSP10-24	24	None	0.42	10.1	80	60	Yes
DSP30-24	24	24 - 28	1.30	31.2	83	25	Yes
DSP60-24	24	24 - 28	2.50	60.0	86	12	Yes
DSP100-24/C2	24	20 - 24.2	3.80	91.2	89	10	Yes
DSP100-24	24	24 - 28	4.20	100.8	85	10	-

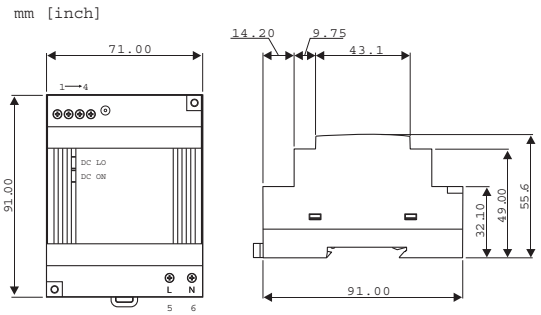
DSP10 Outline Drawing



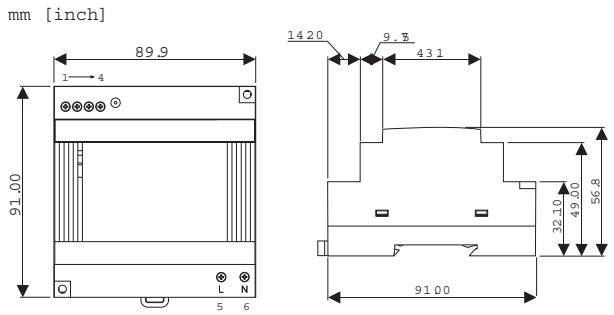
DSP30 Outline Drawing



DSP60 Outline Drawing



DSP100 Outline Drawing



Other DIN Rail Products

DSP/DPP	10W to 480W, 5V to 48V power supplies
DLP	75W to 240W power supplies
DLP-PU	Redundancy Module (20A)
R Series	3A to 30A single & three phase EMI Filters

Snap-on Mounting: snap onto DIN Rail TS35/7.5 or TS35/15. (no tools required)

For Additional Information, please visit
https://product.tdk.com/info/en/products/power/index.html

TDK·Lambda DSP30-24/277A Series

30W 100-277VAC Input DIN Rail Power Supply

Features

- Low Profile for Building Automation
- 24V Output
- Wide Range AC Input (100-277VAC)
- Evaluated to NEC NFPA70 Class 2 Output
- Class II Double Insulation
- AC Line Frequency Sync Signal
- -25 to +71°C Operation
- DIN Rail Mount



Key Market Segments & Applications

Industrial

RoHS

Specifications

Model		DSP30-24/277A
AC Input Voltage range	VAC	90 - 304VAC, Class II double insulated (No ground connection required)
Input Frequency	Hz	47 - 63Hz
DC Input Voltage range	VDC	120 - 370VDC
Input Current	A	1.5A at 90VAC input
Inrush Current	A	65A at 230VAC, Cold start, 25°C ambient
Power Factor & Flicker	-	Meets EN61000-3-2, EN61000-3-3
Output Voltage Accuracy	%	±1% of Nominal
Line Regulation	mV	240mV
Load Regulation	mV	240mV
Ripple and Noise (20MHz BW)	mV	120mV
Overcurrent Protection (Typ)	-	<160%
Overvoltage Protection	V	30 - 36VDC
Hold Up Time (115VAC input)	ms	25ms
LED Indicators	-	Green LED = On, Red LED = DC Output Low
Operating Temperature	-	-25 to +71°C (Derate linearly 2.5%/°C from 61 to 71°C)
Temperature Coefficient	%/°C	±0.05%/°C
Storage Temperature	°C	-25 to +85°C
Operating Humidity	%RH	20 - 90% RH (non condensing)
Cooling	-	Convection
Withstand Voltage	-	Input to Output 3kVAC for 1 min.
Isolation Resistance	-	>20M at 25°C, 70%RH & 500VDC
Safety Agency Approvals	-	IEC/UL/CSA/EN62368-1, 60950-1. Evaluated to NEC NFPA70 Class 2 output per UL1310, CE Mark
Immunity	-	EN61000-4-2, -3, -4, -5, -6, -8 & -11
Conducted & Radiated EMI	-	EN55022 class A
MTBF	Hours	> 100,000 Hours
Weight (Typ)	g	200
Size (WxHxD)	in	2.09 x 3.76 x 2.19”
Case material	-	Flame Retardant Polycarbonate (UL94 V-0)
Line sync signal (secondary)	-	24V peak to peak square wave, synchronized to input line frequency
Warranty	yrs	Two years

Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

Artisan Scientific Corporation dba Artisan Technology Group is not an affiliate, representative, or authorized distributor for any manufacturer listed herein.

We're here to make your life easier. How can we help you today?

(217) 352-9330 | sales@artisantg.com | artisantg.com

ARTISAN® TECHNOLOGY GROUP