



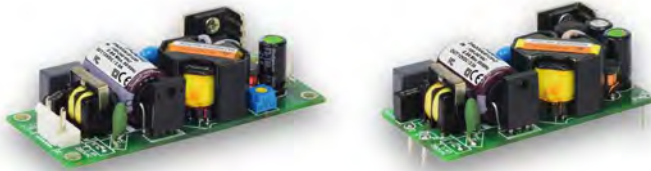
J DAD30 Series

57!87 'DCK 9F 'G! DD@9G'i d'hc" \$'k Uhg

3
YEARS
WARRANTY

ROHS
COMPLIANT

REACH
COMPLIANT



+85°C
-40°C
AMBIENT TEMP.



Automation



Datacom



IPC



Industry



Measurement



Telecom



Automobile



Boat



Charger



Medical



PV



Railway



3000 VAC
Reinforced
Insulation

ADJ.
Output
Voltage

Internal
EN55022
Class **B**
Filter

LOW
Standby
Power

LOW
Leakage
Current

Operating
Altitude
5000
meter

Protection
Class **II**

OCP

OVP

SCP

PART NUMBER STRUCTURE

VP	A	D	30	U	S	12	B	-	□
Application	Package Code	Dimension Code	Output Power (W)	Input Voltage (VAC)	Output Quantity	Output Voltage (VDC)	Protection Type		Connector Option
Industry Application	A: Open type			U: Universal 85 ~ 264	S: Single	3P3: 3.3 05: 5 7P5: 7.5 09: 9 12: 12 121: 12 15: 15 151: 15 18: 18 24: 24 28: 28 36: 36 48: 48 53: 53	B: CLASS II		Blank: JST M: Molex T: Terminal Block D: Pin Type



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57187 DCK 9F GI DD@9Gi d'hc" \$'k Utg

Your Power House
VP ELECTRONIQUE

TECHNICAL SPECIFICATION All specifications are typical at 230VAC input, full load and 25°C unless otherwise noted

Model Number	Input Range	Output Voltage	Output Current Natural convection	Max. Output Power	Input Power @ No Load	Efficiency
	VAC	VDC	A	W	mW	%
XÚAD30US3P3B	85 ~ 264	3.3	6	20	40	84
XÚAD30US05B	85 ~ 264	5	6	30	40	87
XÚAD30US7P5B	85 ~ 264	7.5	4	30	40	87
XÚAD30US09B	85 ~ 264	9	3.34	30	40	88
XÚAD30US12B	85 ~ 264	12	2.5	30	40	90.5
XÚAD30US121B	85 ~ 264	12	2.5	30	40	88
XÚAD30US15B	85 ~ 264	15	2	30	40	90.5
XÚAD30US151B	85 ~ 264	15	2	30	40	88
VPAD30US18B	85 ~ 264	18	1.67	30	40	88
VPAD30US24B	85 ~ 264	24	1.25	30	40	89.5
VPAD30US28B	85 ~ 264	28	1.08	30	40	89.5
VPAD30US36B	85 ~ 264	36	0.84	30	40	90
VPAD30US48B	85 ~ 264	48	0.63	30	40	91.5
VPAD30US53B	85 ~ 264	53	0.58	30	40	91

INPUT SPECIFICATIONS

Parameter	Conditions	Min.	Typ.	Max.	Unit
Operating input voltage range	AC input	85		264	VAC
	DC input	120		370	VDC
Input frequency	AC input	47		63	Hz
Input current	100VAC and Full Load			0.8	A
	240VAC and Full Load			0.4	
No load input power	230VAC		40		mW
Leakage current	264VAC			100	µA
Start up time				1500	ms
Rise time	Others 24Vout,28Vout,36Vout 48Vout,53Vout		20		ms
			40		
			50		
Hold up time	115VAC and Full Load		16		ms
Input inrush current	230VAC			40	A
Input protection	Internal fuse			T1.6A/250VAC	

OUTPUT SPECIFICATIONS

Parameter	Conditions	Min.	Typ.	Max.	Unit
Output power				30	Watts
Initial set voltage accuracy	230VAC and Full Load	-1.0		+1.0	%
Line regulation	Low Line to High Line at Full Load	-0.2		+0.2	%
Load regulation	No Load to Full Load	3.3Vout, 5Vout	-0.7	+0.7	%
		Others	-0.5	+0.5	
	10% Load to 90% Load	3.3Vout, 5Vout	-0.6	+0.6	
	Others	-0.4	+0.4		
Voltage adjustability		-10		+10	%
Minimum load			0		%
Ripple and noise	Measured by 20MHz bandwidth With a 10µF/25V 1206 X7R MLCC	3.3Vout, 5Vout, 7.5Vout,9Vout t	50		mVp-p
		With a 1µF/50V 1206 X7R MLCC	50		
	With a 0.1µF/100V 1206 X7R MLCC	50			
Temperature coefficient		-0.02		+0.02	%/°C
Transient response	Load step from 50 ~ 75% change at 2.5A/µs	Peak deviation		3	%Vout
		Recovery time	500		µs
Over voltage protection	% of Vout(nom); Automatics recovery	125		140	%
Over load protection	% of Iout rated; Hiccup mode		140		%
Short circuit protection					Continuous, automatics recovery

GENERAL SPECIFICATIONS

Parameter	Conditions	Min.	Typ.	Max.	Unit
Isolation voltage	1 minute (Reinforced insulation) Input to Output	3000			VAC

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Isolation resistance	500VDC	0.1			GΩ
Switching frequency	230VAC and Full Load	30	45	60	kHz
Design meet safety standard		UL /EN /IEC60950-1			
Weight		Connector type		60.5g (2.13oz)	
		Pin type		58.0g (2.05oz)	
MTBF	MIL-HDBK-217F, Full load	3.341 x 10 ⁶ hrs			

ENVIRONMENTAL SPECIFICATIONS

Parameter	Conditions	Min.	Typ.	Max.	Unit
Operating ambient temperature	Natural convection With derating	-40		+85	°C
Storage temperature range		-40		+85	°C
Operating altitude				5000	m
Shock				IEC60068-2-27	
Vibration				IEC60068-2-6	
Relative humidity	Non-condensing			5% to 95% RH	

EMC SPECIFICATIONS

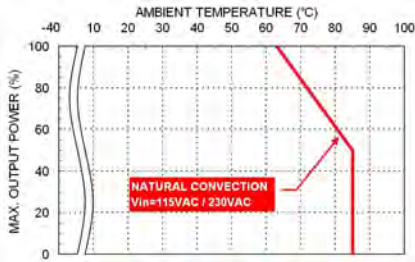
Parameter	Conditions	Level	
EMI	EN55011, EN55022 and FCC Part 15	Conducted	Class B
		Radiated	Class B
Harmonic currents	EN61000-3-2 Full Load		Class A
Voltage flicker	EN61000-3-3		
EMS	EN55024		
ESD	EN61000-4-2 Air ± 15kV and Contact ± 8kV		Perf. Criteria A
Radiated immunity	EN61000-4-3 20 V/m		Perf. Criteria A
Fast transient	EN61000-4-4 ± 2kV		Perf. Criteria A
Surge	EN61000-4-5 DM ± 1kV		Perf. Criteria A
Conducted immunity	EN61000-4-6 20 Vr.m.s		Perf. Criteria A
Power frequency magnetic field	EN61000-4-8 30 A/m		Perf. Criteria A
Dip and interruptions	EN61000-4-11 230VAC 50Hz	30% 20mS	Perf. Criteria A
		30% 500mS	Perf. Criteria A
		60% 1000mS	Perf. Criteria A
		>95% 10mS	Perf. Criteria A
		>95% 5000mS	Perf. Criteria B
Damped Oscillatory Wave	EN 61000-4-18 DM ± 1kV and CM ± 2.5kV		Perf. Criteria A



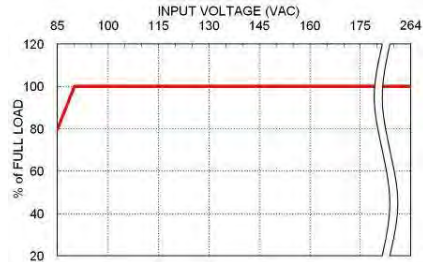
J DAD30 Series

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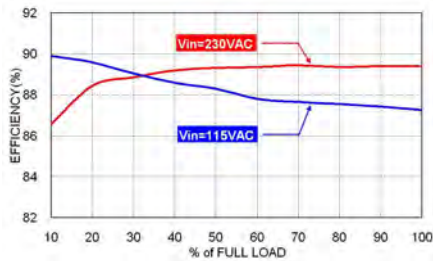
CHARACTERISTIC CURVE



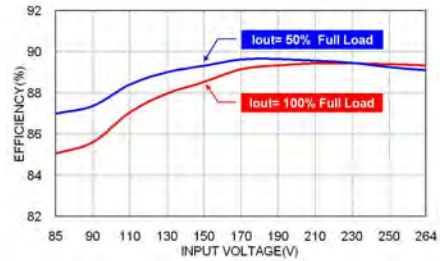
Derating Curve vs. Ambient Temperature
TAD30US24B



Derating Curve vs. Input Voltage



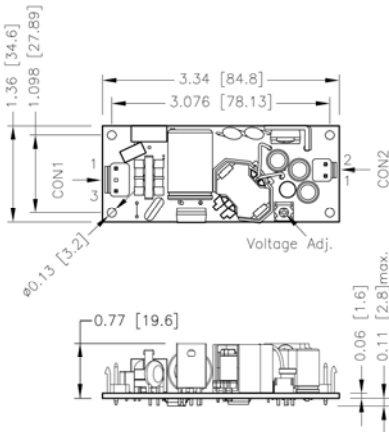
Efficiency vs. Output Load
VPAD30US24B



Efficiency vs. Input Voltage
VPAD30US24B

MECHANICAL DRAWING

TAD Connector type



FRONT VIEW

CONNECTORS CONNECTION

CON1 – Input Connector	
Pin 1	Line
Pin 3	Neutral

CON2 – Output Connector	
Pin 1	+Vout
Pin 2	-Vout

- All dimensions in inch (mm)
Tolerance : x.xx±0.02 (x.x±0.5)
x.xxx±0.01 (x.xx±0.25)
- The screw locked torque: MAX 5Kgf.cm/0.49N.m

CONNECTOR OPTIONS

Blank: JST Type

Housing
CON1: VHR-3N
CON2: VHR-2N



Crimp terminals
CON1: SVH-21T-P1.1
CON2: SVH-21T-P1.1

-M

Molex Type

Housing
CON1: 09-50-8031
CON2: 09-50-8021



Crimp terminals
CON1: SD-2478
CON2: SD-2478

-T

Terminal Block

Mates with
Screw locked torque
MAX 2Kgf.cm/0.2N.m



Wire dimension range
26 ~ 16AWG

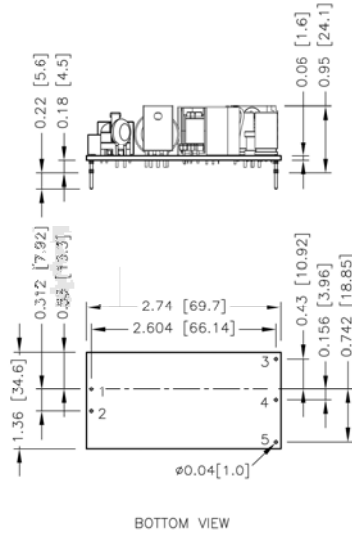


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MECHANICAL DRAWING

VPAD -D Pin type



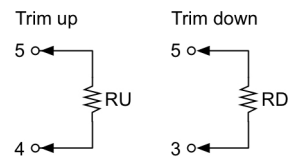
BOTTOM VIEW

PIN CONNECTION

PIN	SINGLE
1	Neutral
2	Line
3	+Vout
4	-Vout
5	Trim

EXTERNAL OUTPUT TRIMMING

Output can be externally trimmed by using the method shown below.



1. All dimensions in inch (mm)
2. Tolerance :x.xx±0.02 (x.x±0.5)
x.xxx±0.01 (x.xx±0.25)
3. Pin pitch tolerance ±0.01 (0.25)
4. Pin dimension tolerance ±0.004(0.1)