

ISOLATED DC-DC CONVERTERS

STANDARD MODELS



MODEL NUMBER	INPUT RANGE	OUTPUT	POWER
WA2412300	18V-32V	13.8V (I max. 22A)	300 Watt Size 115x72x49mm
WA4812300	29V-60V		
WA8012300	50V-100V	26.0V (I max 11.5A)	
WA4824300	29V-60V		
WA8024300	50V-100V	13.8V (I max. 33A)	450 Watt Size 120x72x54mm
WA4812450	29V-60V		
WA8012450	50V-100V	26.0V (I max. 17A)	
WA9612450	62V-142V		
WA14412450	80V-175V	13.8V (I max. 60A)	900 Watt Size 147x90x58,5mm
WA4824450	29V-60V		
WA8024450	50V-100V	26.0V (I max. 32A)	
WA9624450	62V-142V		
WA14424450	80V-175V	13.8V (I Max. 105A)	1500 Watt Size 165x104x62mm
WA4812900	29V-60V		
WA8012900	50V-100V	26V (I Max. 56A)	
WA9612900	62V-142V		
WA4824900	29V-60V	28V (I Max. 52A)	
WA8024900	50V-100V		
WA9624900	62V-142V	13.8V (I Max. 105A)	
WA48121500	29-60V		
WA96121500	60-150V	26V (I Max. 56A)	
WA96241500	60-150V		
WA80281500	40-100V	28V (I Max. 52A)	

Features

- Isolated Switching Regulator
- Output power max. 300W/450W/900W/1500W
- Compact design
- Encapsulated IP65
- On / Off Key switch input
- Vibration resistant
- Wide input range
- Short circuit protection
- Contact cooling
- Connector Molex Mini-Fit Sr.
- Over temperature protected

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Specification

(After warm-up time at 25 °C)

Regulation

- Load variation 10-90 %

static

Typ. 0,5%(max.1,0%)

dynamic

Typ. 1,0%(max.2,0%)

- Input voltage variation +/-10%

Typ. 0,2%(max.0,5%)

Recovery time to +/-1%

Typ.0,25ms(max.0,5ms)

Efficiency at full load

1,5% U-out NOM

- Typ. with 13,8V output

Typ. 100mVpp

- Typ. with 26V output

Typ. 110kHz

Ripple and noise

1,5% U-out NOM

Switching spikes

Typ. 100mVpp

Switching frequency

Typ. 110kHz

Conducted interference at input

≤ 1% pp.max

Idle current input at 72VDC

Ca./approx. 15mA

Ambient temperatures

- Storage temperature range

-40 °C... +105 °C

- Operating temperature range

-40 °C... +105 °C

- Operating temperature range at full load
(temperature at heat sink)

-40 °C... +70 °C

- Temperature coefficient

Coefficient 0,05 % / °K

humidity

100 % RH

Break down voltage input/output

1000 VDC / 1 min.

Isolated resistance

100 MΩ

Output short circuit protected by switch off

Ca. 120 % I-nom

Inrush current

<5A



Adigo Drives AB

Neongatan 10 – 431 53 Mölndal, Sweden

Phone +46 31-67 23 40 | Email order@adigoab.com