

## 20 Watt, SW20 Series, DC-DC Converter (Single Output)



electronicpowersolutions

- Wide 2:1 Input Range
- Remote on/off Control (option to delete)
- 1600V Isolation
- Ultra Compact 1x1" Encapsulated Metal Case
- PCB Mounting, Option of Chassis Or Din Rail Mount.
- Competitive Prices & 2 Year Warranty
- High Efficiency up to 89%
- Wide Operational Temperature Range



### Specification (typical values shown)

Input Ranges.....	9~18, 18~36 and 36~75 Volts
Outputs.....	Single outputs (see table below)
Line Regulation.....	+/-0.5%
Load Regulation.....	+/-1%
Output Ripple.....	75mV max (3.3 or 5 V o/p) 100mV max (others)
Output Noise.....	100mV max (3.3 or 5 V o/p) 125mV max (others)
Efficiency.....	See table for each model
Short Circuit Protection.....	Current limit, auto-recovery
Isolation Voltage.....	1600 VDC
Operating Temperature.....	-40 to +50 °C @ full load, Derates to 75% at +70°C
Storage Temperature.....	-55 to +105 °C
Case Material.....	6 sided shielded, non conductive base
Switching Frequency.....	300 kHz (12 & 15 V o/p), 450kHz (3.3 & 5 V o/p)
MTBF.....	>800,000 hrs @ 25°C (MIL-HDBK-217F)
Warranty.....	2 Years

### Models and Ratings

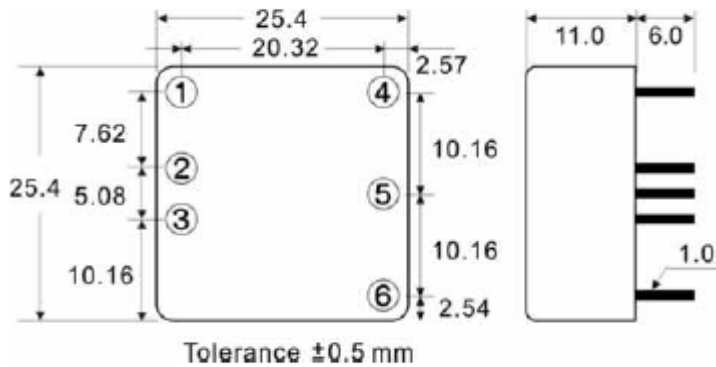
Model	Input Range (VDC)	Output (VDC)	Output Current	Efficiency
SW20-12-3.3S-AP	9-18 Volts	3.3 Volts	4.5 Amps	85%
SW20-12-5S-AP	9-18 Volts	5.0 Volts	4.0 Amps	89%
SW20-12-12S-AP	9-18 Volts	12 Volts	1.66 Amps	88%
SW20-12-15S-AP	9-18 Volts	15 Volts	1.33 Amps	88%
SW20-24-3.3S-AP	18-36 Volts	3.3 Volts	4.5 Amps	86%
SW20-24-5S-AP	18-36 Volts	5 Volts	4.0 Amps	89%
SW20-24-12S-AP	18-36 Volts	12 Volts	1.66 amps	89%
SW20-24-15S-AP	18-36 Volts	15 Volts	1.33 Amps	89%
SW20-48-3.3S-AP	36-75 Volts	3.3 Volts	4.5 Amps	84%
SW20-48-5S-AP	36-75 Volts	5 Volts	4.0 Amps	88%
SW20-48-12S-AP	36-75 Volts	12 Volts	1.66 Amps	89%
SW20-48-15S-AP	36-75 Volts	15 Volts	1.33 Amps	89%

For mechanical data and pinout, please see next page

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# 20 Watt, SW20 Series, DC-DC Converter (Single Output)

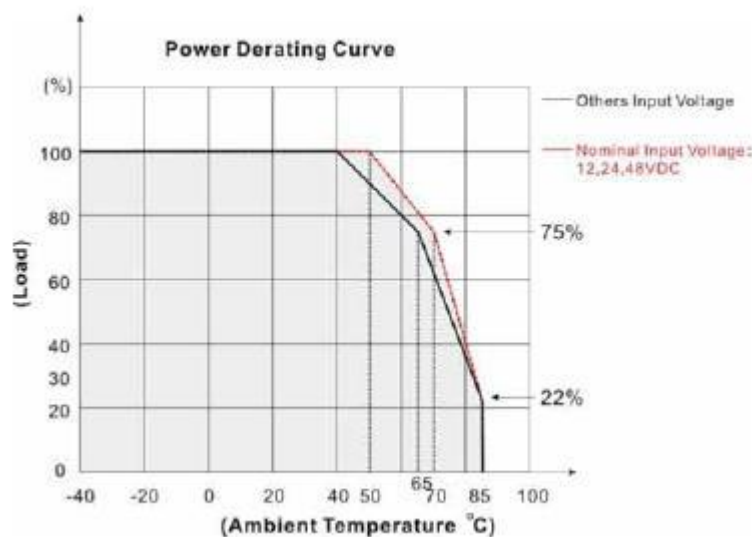
## Mechanical Details and Pin-Out Top View



Pin	Single O/P
1	On/Off R/C
2	-V in
3	+V in
4	-V out
5	No Pin
6	+V out
Pin 1 Optional R/C	

Standard format PCB mounting, options available for Screw Terminal or DIN Rail mounting adaptors, please contact ALL PSU sales office for details.  
Remote On/Off control, open/no connection = Output On,  
connect control pin to -V in pin to switch output off.

## Derating Curve



Specifications may change without notice, E&OE. ALL PSU Terms & Conditions apply.

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