



**FEATURES:**

- RoHS compliant
- Power modules for PCB mounting
- V-out trim and On/Off control
- Regulated output
- Low ripple and noise
- 4:1 input ranges

**Models  
Single output**

Model	Input Voltage (V)	Output Voltage (V)	Output Current max (A)	Isolation (VDC)	Efficiency (%)
AM20UW-2403SCZ	10-40	3.3	4	1500	72
AM20UW-2405SCZ	10-40	5	4	1500	75
AM20UW-2412SCZ	10-40	12	1.67	1500	77
AM20UW-2415SCZ	10-40	15	1.33	1500	77
AM20UW-4803SCZ	18-75	3.3	4	1500	74
AM20UW-4805SCZ	18-75	5	4	1500	77
AM20UW-4812SCZ	18-75	12	1.67	1500	79
AM20UW-4815SCZ	18-75	15	1.33	1500	79

**Models  
Dual output**

Model	Input Voltage (V)	Output Voltage (V)	Output Current max (A)	Isolation (VDC)	Efficiency (%)
AM20UW-2405DCZ	10-40	±5	±2	1500	82
AM20UW-2412DCZ	10-40	±12	±0.83	1500	84
AM20UW-2415DCZ	10-40	±15	±0.66	1500	85
AM20UW-4805DCZ	18-75	±5	±2	1500	83
AM20UW-4812DCZ	18-75	±12	±0.83	1500	85
AM20UW-4815DCZ	18-75	±15	±0.66	1500	84

**Input Specifications**

Parameters	Conditions	Typical	Maximum	Units
Voltage range		10-40 18-75		VDC
Filter		π (Pi) Network		
Remote On/Off Control	On	4~5		VDC
	Off	0~1		VDC

**Isolation Specifications**

Parameters	Conditions	Typical	Maximum	Units
Rated voltage		1500		VDC
Resistance		> 100		MOhm
Capacitance		1000		pF

**Output Specifications**

Parameters	Conditions	Typical	Maximum	Units
Voltage accuracy			±2	%
Short Circuit protection	Auto recovery	Hiccup,		
Over voltage protection		Zener diode clamp protection		
Over load protection	Auto recovery	Works 120% of rating		%
Output voltage trimming		±10		%
Line voltage regulation (Single)	HL-LL	±0.5		%
Line voltage regulation (Dual)	HL-LL	±0.5		%

Line voltage regulation (Triple)	HL-LL	$\pm 1 / \pm 5$	%
Load voltage regulation (Single)	10-100%	$\pm 0.5$	%

**Output Specifications (continued)**

Parameters	Conditions	Typical	Maximum	Units
Load voltage regulation (Dual)	10-100%	$\pm 3$		%
Load voltage regulation (Triple)	10-100%	$\pm 3 / \pm 5$		%
Temperature coefficient		$\pm 0.02$		%/°C
Ripple			0.2% Vout + 20mV max	Vp-p
Noise			0.5% Vout + 50mV max	Vp-p

**General Specifications**

Parameters	Conditions	Typical	Maximum	Units
Switching frequency	100% load	200		KHz
Operating temperature	With derating above 50°C	-25 to +70		°C
Storage temperature		-55 to +105		°C
Case temperature			100	°C
Cooling	Free air convection			
Humidity	Non condensing		95	%
Case material	Nickel coated copper with non conductive base			
Weight		70		g
Dimensions	Tolerance $\pm 0.5$ mm	2.0 x 2.00 x 0.42 inches	50.8 x 50.8 x 10.8 mm	
MTBF	> 550 000 hrs (MIL-HDBK -217F, Ground Benign, t=+25°C)			

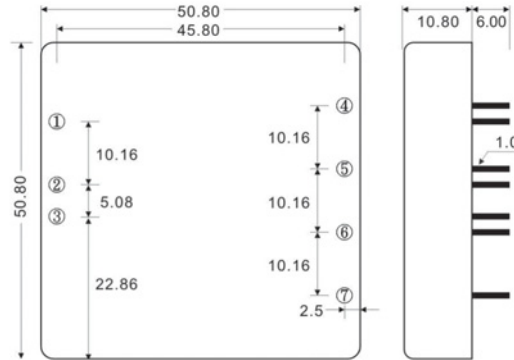
**Safety Specifications**

Standards	
Agency approvals	CE (Pending)
EMI (Conducted & Radiated Emission)	EN 55022 class A

**Pin Out Specifications**

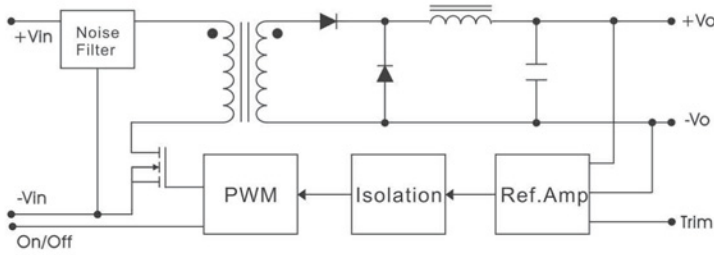
Pin	Single	Dual
1	On/Off Control	On/Off Control
2	-V Input	-V Input
3	+V Input	+V Input
4	Trim	Trim
5	-V Output	-V Output
6	+V Output	Common
7	No pin	+V Output

**Dimensions**

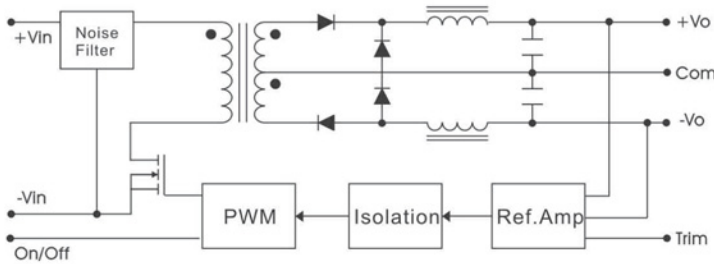


**Block diagram**

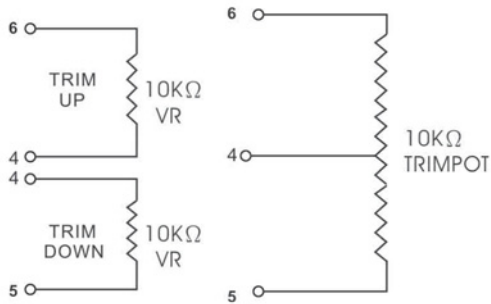
**Single Output**



**Dual Output**



**Trimming**



**Derating**

