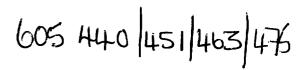
Provisional Specification



	VWS400 Range	VWS400J	VWS400L	VWS400N
efinitions	I _{MAX} = the maximum rated output current at 25°C ambient and >198V input: V _{NOM} = Nominal output voltage.			
nput characte	eristics			
***************************************	85 – 264V a.c.			
requency	47 – 63Hz		•	
Supply Type	Single phase TN-S (as defined by IEC 364)			
.m.s. Current	??A maximum at 400W output power and 88V a.c. input, ??A at 400W and 198V a.c. input.			
Peak Inrush Current	rent cold start.		•	
Power	??W maximum at 400W output power and 88V a.c. input.			
Phase Angle	2107W maximum at 1800W output power and 198V a.c. input.			
Factor	0.99 typical, 0.95 minimum at 400W output power and 100 to 240V a.c. input Typically 80% at 230V a.c. input and 400W resistive load.	-		
Efficiency				
Harmonic Distantian	Units comply with the requirements of EN61000-3-2.			
Distortion	Furn Off characteristics			
Turn On and Turn On Delay	Output starts to rise within ??s of application of input power.			
-	Output voltage rise is monotonic and typically reaches nominal			
Start Up Characteristic	voltage in ??ms.			
Start Up Time	Output voltage reaches nominal within 1.5s at 100V input and			
Hold Up Time	400W output power, 0.5s at 230V input. 20ms minimum at 400W output power over the full input voltage			
Output chara	range.			
Output chara	The output voltage is factory set to within ±?? of	12V	24V	48V
Adjustment	The output voltage is adjustable by multi-turn potentiometer over	10 – 16V	20 - 36V	40 – 58V
Range	the range			
Current	Maximum continuous current ratings (I _{MAX}) as shown are available up to 60°C for input voltages above 100V a.c. Below 100V, the maximum temperature is reduced to 50°C. For temperatures up to 70°C, derate by 2.5%/°C above maximum rated temperature.	30A	16A	8A
Power	Maximum available output power into a resistive load is 400W up to 60°C for input voltages above 100V a.c. Below 100V, the maximum temperature is reduced to 50°C. For temperatures up to 70°C, derate by 2.5%/°C above maximum rated temperature. A load change from 0 to I _{MAX} results in a maximum voltage			
Load Regulation	deviation of 1%V _{NOM} .			
Line Regulation	A change of input voltage over the range 100V to 240V a.c. results in a maximum output voltage deviation of 0.2%V _{NOM} .			
Combined	- Not specified -			
Regulation	·			
Dynamic	A step change in output current from 50% to 100% of full load			
Regulation	results in a maximum output voltage deviation of 250mV, recovering to 1% of nominal within 1ms. - Not specified -			
Quiescent Current				
Temperature Coefficient	±0.02%/°C typ/max?? over the range ?? to +??°C.			
Ripple and Noise	Differential ripple over a 500kHz bandwidth does not exceed 50mV pk-pk.	400 11 1	400 11 1	450 17 1
	Differential noise over a 30MHz bandwidth does not exceed	100mV pk- pk	100mV pk- pk	150mV pk-

Protection

Provisional Specification

	VWS400 Range	VWS400J	VWS400L	VWS400N
Innut Eugina	An internal fuse is fitted, rated ??A T 250V.			
Input Fusing				
input Undervoitage	- Not specified -			
Output Current	Output current limit is set at 105% I _{MAX} ±5%. Current limit			
Limit	characteristic is ??			
Series Output	- Not available -			
Diode	and the pulse with the property college expecting			
Output	Unit will shutdown in the event of the output voltage exceeding the overvoltage limit. Reset is achieved by interrupting the input			
Overvoltage	power. The overvoltage threshold is set to 120%V _{Nom} ±5%.		_	
	The overvoltage threshold is adjustabel by a 20-turn		-	
	potentionmeter over the range ??			
Parallel Voltage	- Not specified -			
Fan Operation	- Not available -			
Sensor	In the event of thermal overload, the unit will be inhibited. Output	-		
Thermal	power is reinstated when the unit has cooled. Latching thermal			
Overload	trip is available by specifying option ??.			
Auxiliary Fun				
Remote Sense	Remote sense is available on all units to compensate for load	16.5V	36.5V	58.5V
	lead voltage drops. Output terminal voltage must not exceed			
Current Share	Units may be operated in parallel without limitation. The current share facility forces sharing of load current between units to	•	•	
	within 10%.			
Postmate	- Not available -			
Remote On/Off	- Not available -			
	TTL compatible input. A logic low input (>150ms duration) will			
	inhibit the unit output, removal of the logic input will reinstate the			
	output.			
	A short pulse (1 – 30ms duration) will toggle the unit on or off. This action will also reset any latched condition caused by			
	overvoltage or overtemperature.			
Enable	- Not available -			
Disable	– Not available –			
Voltage Trim	- Not available -			
Marginate Down	n - Not available -			
Marginate Up	– Not available –			
Voltage	- Not available -			
Programming				
Current Limit	- Not available -			
Programming Output Healthy	– Not available –			
Relay				
Rectifier Fail	Not available –			
Alarm	– Not available –			
Temperature Compensation	- Not available -			
Power Fail	An open collector output. A high to low transition provides at			
Warning	least 5ms warning of output power failure due to loss of input.			
DC OK	Open collector output and green LED. Active low (on) when			
O.,,,,,,,	output voltage exceeds DC OK threshold of 85% V _{NOM} . - Not available -			
Current Signal				
Input Healthy Signal	Not available –			
Standby Signal	I – Not available –			
Output Healthy				
Signal				

Provisional Data

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Provisional Specification

	VW6400 Banga	VWS400J	VWS400L	VMCACON
	VWS400 Range	7 17 3 7 0 0 0	7 1737VVL	VWS400N
- up-1	- Not available -			
Detect Signal Current Limit	- Not available -			
Signal Overvoltage	- Not available -		,	
Trip Signal Thermal Control	- Not available -			
Signal Thermal	- Not available -			
Warning Signal Fan Fail	Open collector output available when option ?? is specified. Active low when fan has slowed or stopped.		•	
Auxiliary Output	A power output for interface circuitry available when option ?? is specified. Rated at 5V ±5%, 100mA. This output is present even when the unit is inhibited.			
Indicators	3 visual indicators are provided:	•		
	DC OK: Green LED			
	Overtemperature: Red LED			
	Overvoltage: Red LED			
Signals	Reference for signals internally linked to -Sense.			
Insulation			,	
Primary to Earth	1,500V a.c.		•	
Secondary to	700V d.c.			
Earth Primary to	4,000V a.c.			
Secondary Leakage	1.2mA maximum at 240V, 60Hz input.			
Current Absolute may	kimum ratings			
	100V d.c. working voltage.			
Signal to Earth	100V d.c. working voltage.			
_	t 100V d.c. working voltage.			
Output to	- Not applicable -			
Signal Input				
	etic Compatibility		· · · · ·	
General	Compliant with EN50081-1 (92) with compliance to the following			
	specific conditions:			
Emission,	EN61000-3-2			
Conducted 0 -				
2kHz Emission,	EN55022-B			
Conducted 0.15				
30MHz				
Emission,	EN55022-B at 10m.			
Radiated 0.03 - 1GHz				
Immunity,	Compliant with EN50082-1(94)			
General Immunity, Fast	IEC1000-4-4-B			
Transients	1504000 4 0 A			
Immunity, ESD	IEC1000-4-2-A			
Immunity, RF	ENV50140-A at 3V/m			
Field Immunity, Magnetic Field	EN61000-4-8-A at 3A/m			
Immunity,	ENV50141-A at 3V r.m.s.			
Conducted RF	Provisional Data			

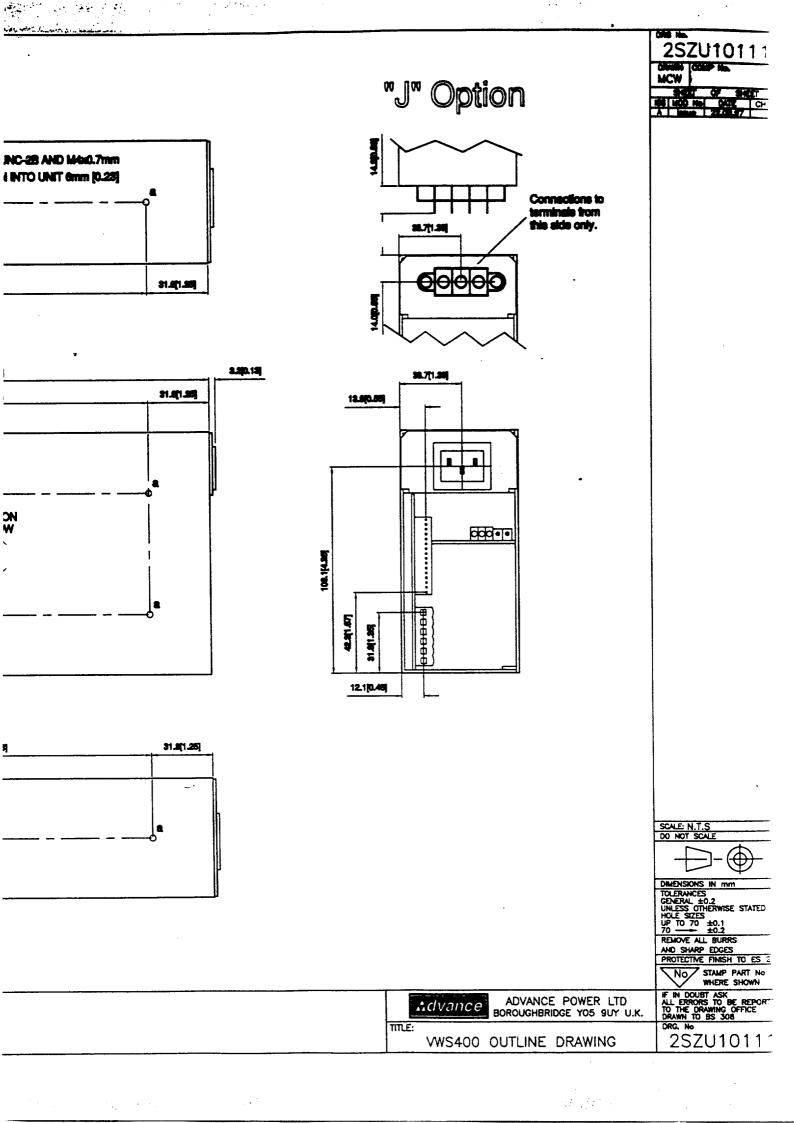
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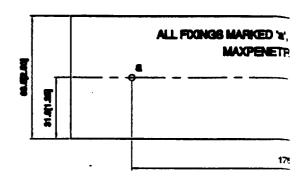
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Provisional Specification

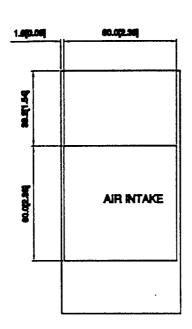
	VWS400 Range	VWS400J	VWS400L	VWS400N
Immunity, Surge	ENV50142-B			
	I Specification			
Ambient Temperature Humidity	0 to +70°C operating. See output current and power for derating requirements40 to +85°C transportation. 0 to 85% R.H. non-condensing, operating. 0 to 95% R.H. non-condensing, non-operating.			
Altitude	0 to 3,000m operating. 0 to 10,000m non-operating.			
Mechanical shock and vibration	Compliant with the requirements of BS2011 Test Fc.			
115144411	Drop and topple to EN60068-2-31 Test Ec.			
	Bump test to EN60068-2-47 Tes Eb.			
	Transportation to BS2011 Part 2.1 Test Fc when in original packing. Drop test to EN60068-2-32 Test Ed when in original packing.	-		
Pollution	EN60950 degree 2 i.e. office type environments.			
Reliability MTBF	100,000 hours calculated to HRD4. 100,000 hours calculated MIL217 at 25°C ground benign.			
Mechanical S				
Dimensions	W x H x D = $127 \times 63.5 \times 239.5$ mm, $5.00 \times 2.50 \times 9.43$ in.		•	
Mass	Typically ??kg, ??lb.			
Fixings	Units are provided with three sets of universal fixings: two fixings in each side and four in the base. Threaded inserts will accept M4 or 8-32 UNC screws. Maximum penetration 6mm (0.24").	i		
' funting Orientation	This unit can be mounted in any orientation without derating.			
Ventilation and Cooling	The unit is cooled by an internal fan. Free airflow must be available in the region of the fan inlet and over the connector end of the power supply.			
Finish	All external metalwork is finished in gold coloured chemical etch.			
Connectors				
Input	IEC320 connector as standard. Screw terminal block type Beau 72000 series available by specifying option ??			
Output	Beau Eurostyle 86 series 6-way connector on VWS400L and VWS400N. Busbars with M?? screw terminals on VWS400J.			
Signals	Molex 7478 series 10-way pin wafer. Mating with Molex 6471 series header, part number 22-01-2105.			
Connector kits				
Dimensions Outline Drawing	g 2SZU10111			

Pin connections

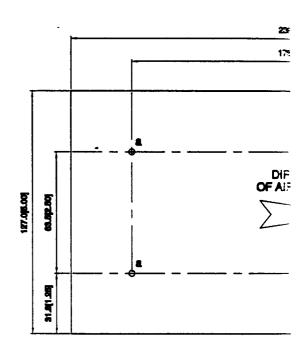


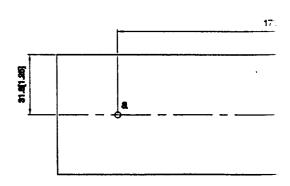


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