TECHNICAL DATA

WATTBLOC™ 500

Resulting values for 600Vac selected with power output of 375kVA



DC input data WATTBLOC 500	WATTBLOC 500
MPP range	875 - 1350 V (based on AC output voltage of 600Vac)
Operating range	875 - 1450 V (based on AC output voltage of 600Vac)
Rated DC voltage / start voltage	1000 V (based on AC output voltage of 600Vac)
Max. no-load voltage	1500 V'[
Max. input current	430 A
Max. short circuit current I sc max	1000 A
Number of MPP trackers	1
Max. connections per tracker	2
AC output data	
Rated output	375 kVA (Ouput power based on selected AC nominal voltage of 600Vac)
Max. power	375 kVA
Rated voltage	600 V (selected voltage level)
Voltage range (Ph-Ph)	277 - 1000 V
Rated frequency (range)	50 Hz / 60 Hz (45 – 65 Hz)
Rated current	3 x 361 A
Max. current	3 x 361 A
Reactive power / cos phi	0 – 100 % Snom / 0.30 ind. – 0.30 cap.
Total harmonic distortion (THD)	≤ 3 %
Number of grid phases / line connections	3 / 3P+PE
General Data	
Max. efficiency	99.20%
CEC efficiency	99.00%
Max ambient temp @ Full power (Derating Temperature)	113°F (45°C) up to 1300Vdc
Standby consumption	tbd
Circuitry topology	transformerless
Mechanical Data	
Display	LEDs
Control units	Webserver (supports mobile devices)
Interfaces	Ethernet (Modbus TCP, Sunspec), RS485 (Modbus RTU, Sunspec)
DC connection	cable lug, max. 800 kcmil (400 mm^2) Cu or Al
AC connection	cable lug, max. 800 kcmil (400 mm^2) Cu or Al
Ambient operating temperature	-40 °C – +60 °C
Ambient storage temperature	-40 °C – +60 °C
Humidity	0 – 100 %
Max. installation elevation (above MSL)	3000 m
Cooling	temperature controlled fans
Protection class	NEMA 4X
Noise emission	61.5 dB
H x W x D	31.9 in. (810 mm) x 65.4 in. (1660 mm) x 15.0 in. (380 mm)
Weight	441 lbs (200 kg)

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