ZBM-AC

SPECIFICATIONS

A285-01-01

ITEMS \ MODEL			ZBM-AC162
INPUT			
	Input Voltage Range	-	395VDC Max
PERFORMANCE			
	Rated Capacitance	uF	1680
	Buffer Time (Typ.) (*1)	ms	200
	Charging Time (Typ.) (*2)	sec	5
	Self Discharge Time (Typ.) (*3)	sec	100
OUTPUT			
	Standby Supply	-	None
	Leakage Current	-	Less than 0.5mA
FUNCTION			
	Parallel Operation (*4)	-	Possible
	Series Operation	-	Not Possible
	Monitoring Signal (*4)	-	Ready Signal (Open Collector Output)
	Bulk Capacitor Voltage Monitoring (*5)	-	Red LED
ENVIRONMENT			
	Operating Temperature	-	-10 to +70°C
	Storage Temperature	-	-30 to +75°C
	Operating Humidity	-	10 to 90%RH (No Condensing)
	Storage Humidity	-	10 to 90%RH (No Condensing)
	Vibration (*6)	-	At no operating, 10 - 55Hz (Sweep for 1min) 19.6m/s^2 Constant, X,Y,Z 1hour each.
	Shock (*6)	-	At no operating, Less than 196m/s^2
	Cooling	-	Convection Cooling / Forced Air Cooling
ISOLATION			
	Withstand Voltage	-	Input - FG : 2kVAC (10mA), Input - Signal : 3kVAC (10mA) Signal - FG : 500VAC (20mA) for 1min
	Isolation Resistance	-	More than 100MΩ at 25°C and 70%RH Signal to FG : 500VDC
STANDARD and COMPLIANCE			
	Safety	-	Approved by IEC/UL/EN/CSA 62368-1 (Altitude ≤ 5,000m) Approved by IEC/EN62477-1 (OVCIII) (Altitude ≤ 2,000m)
MECHANICAL			
	Weight (Typ.)	g	230
	Size (W x H x D)	mm	54 x 42 x 170 (Refer to Outline Drawing)

*Read instruction manual carefully, before using the buffer module unit.

*ZBM-AC162 is buffer module for connect to ZWS300RC/BM or /RBM and extend the Hold-up time.
It must not be used alone and connected to other than ZWS300RC/BM or /RBM.

=NOTES=

*1. At Ta=25°C, Buffer time when one ZBM-AC162 connected to the ZWS300RC-24/BM. Refer to A285-01-02_ .

*2. Charging time until the bulk capacitor of ZBM-AC162 is 90% or more of the input voltage.

*3. Time for the internal voltage drop to 60V by self-discharge circuit.

*4. Refer to instruction manual. (A285-04-01_)

*5. LED is off when bulk capacitor is less than 60V.

*6. The result is evaluated by TDK-Lambda standard measurement condition.
The power supply is considered a component which will be installed into a final equipment.
The final equipment should be re-evaluated that it meets Vibration and Shock directives.

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OUTPUT POWER vs. BUFFER TIME

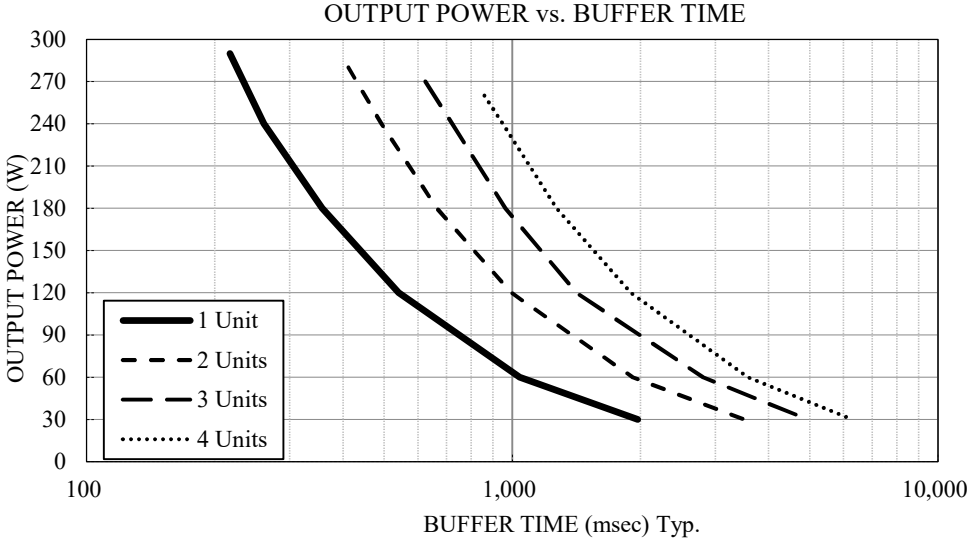
A285-01-02

OUTPUT POWER vs. HOLD UP TIME CHARACTERISTICS

This is the buffer time when ZBM-AC162 is connected to ZWS300RC-24/BM.
When connect the Buffer module (ZBM-AC162), must derating the maximum output power.

ZWS300C Input Voltage : 200VAC, Ta=25°C, Initial state of capacitor capacity

Output Power of ZWS300RC-24/BM	BUFFER TIME (msec)			
	1 UNIT	2 UNITS	3 UNITS	4 UNITS
300 W	Do not use	Do not use	Do not use	Do not use
290 W	217	Do not use	Do not use	Do not use
280 W	225	412	Do not use	Do not use
270 W	235	450	625	Do not use
260 W	245	470	705	860
240 W	261	493	723	950
180 W	358	665	963	1270
120 W	541	995	1415	1900
60 W	1041	1920	2810	3580
30 W	1972	3510	4950	6300



MOUNTING METHOD