ZBM-AC/S

SPECIFICATIONS

A285-01-01/S

ITEMS \ MODEL			ZBM-AC162/S
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		-	24V / 0.2A
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	(*8)	-	-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	(*7)	-	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	260
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.

*7. Forced air cooling with air velocity more than 0.7m/sec.
(Measured at component side of PCB, air must flow through component side).

*8. Convection cooling and Forced cooling derating. Refer to derating curve (A285-01-50/S-_).

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OUTPUT DERATING (STANDBY SUPPLY)

A285-01-50/S

OUTPUT DERATING vs. AMBIENT TEMPERATURE

It must not exceed its specification and derating.

COOLING : CONVECTION COOLING

Ta (°C)	LOAD (%) MOUNTING A - E
-10 - +50	100
60	60
70	20

COOLING : FORCED AIR COOLING
(Air velocity ≥ 0.7m/s)

Ta (°C)	LOAD (%) MOUNTING A - E
-10 - +50	100
60	100
70	100

LOAD vs. AMBIENT TEMPERATURE