Three Phase Rectifier Bridge Module (Low Profile of 17mm height)

DF150AC series

 $I_{F(AV)} = 150A$, $V_{RRM} = 800 - 1800V$

SanRex Three Phase Rectifier Bridge Module **DF150AC** series is designed for applications requiring low profile converter-inverter circuit designs. Thanks to the **17mm flat case height design**, the **DF150AC** series can be connected with IGBT or MOSFET modules at the same 17mm case height. This advantage typically reduces the needed parts and manufacturing cost. It also enables level parallel connections for larger capacity, contributes reducing stray inductance, improving high efficiency and reliability.

Features

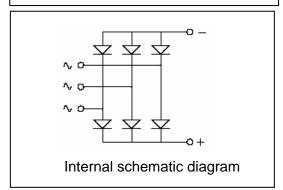
- * Low Case Height of 17mm
- * Enable easy parallel connection
- * Very Low Forward Voltage Drop
- * High Surge Current Capability
- * RoHS Compliance

Typical Applications

- * Welding and Plasma Cutting Machines
- * Battery Chargers
- * Power Supplies
- * Motor Controls



Isolated Package



< Maximum Ratings > Tj = 25°C (unless otherwise noted)

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	Item	DF150AC80	DF150AC160	DF150AC180	Unit	
Symbol						
V_{RRM}	Repetitive Peak Reverse Voltage	800	1600	1800	V	
V_{RSM}	Non-Repetitive Peak Reverse Voltage	960	1700	1900	V	

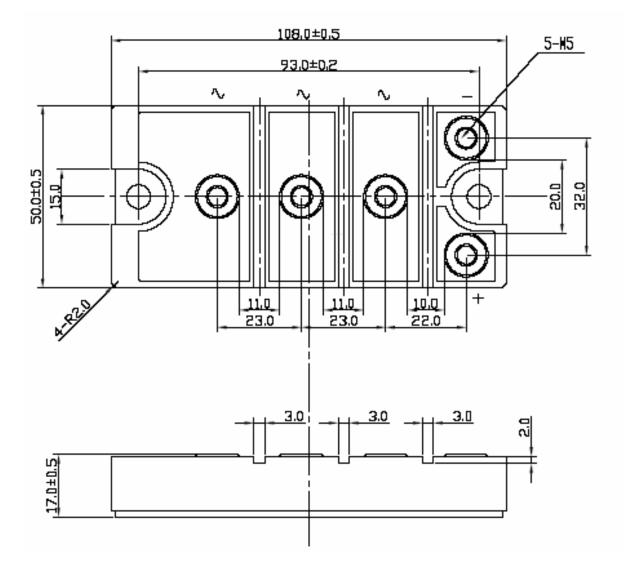
Symbol		Item	Conditions	Ratings	Unit
I _{F(AV)}	Average Fo	orward Current	Three phase, Full wave, T _C = 106°C	150	Α
I _{FSM}	Surge Forward Current		1cycle, 60Hz, Peak value, non- repetitive	1200	А
l²t	I 2t (for fusing)		Value for one cycle surge current	6000	A ² s
Tj	Junction Temperature			-40 to +150	°C
Tstg	Storage Temperature			-40 to +125	°C
V _{ISO}	Isolation Voltage (R.M.S.)		A.C. 1 minute	2500	V
	Mounting	Mounting M5	Recommended 1.5-2.5	2.7	N·m
	Torque	Terminal M5	Recommended 1.5-2.5	2.7	
	Mass		Typical Value	290	g

Three Phase Rectifier Bridge Modules

DF150AC series

< Electrical Characteristics > Tj= 25°C (unless otherwise noted)

Symbol	Item	Conditions		Ratings		Unit
			Min.	Тур.	Max.	
I _{RRM}	Repetitive Peak Reverse Current	$V_R = V_{RRM}$, $T_{j=150^{\circ}C}$			15.0	mA
V_{FM}	Forward Voltage Drop	I _F = 150A, Inst. measurement			1.20	V
Rth(j-c)	Thermal Resistance	Junction to case			0.12	°C/W



^{*} Dimensions in millimeters (1mm=0.0394")