



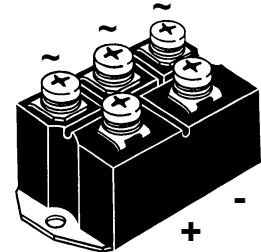
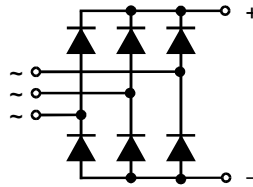
**THE DATASHEET OF
VUO62-18NO7**



Three Phase Rectifier Bridge

$I_{dAV} = 63/88 \text{ A}$
 $V_{RRM} = 800-1800 \text{ V}$

V_{RSM} V	V_{RRM} V	Type	
600	600	VUO 62-06NO7	VUO 82-06NO7
800	800	VUO 62-08NO7	VUO 82-08NO7
1200	1200	VUO 62-12NO7	VUO 82-12NO7
1400	1400	VUO 62-14NO7	VUO 82-14NO7
1600	1600	VUO 62-16NO7	VUO 82-16NO7
1800	1800	VUO 62-18NO7*	VUO 82-18NO7*



* delivery time on request

Symbol	Test Conditions	Maximum Ratings			
		VUO 62		VUO 82	
I_{dAV}	$T_C = 110^\circ\text{C}$, module	63	88	A	
I_{dAV}	$T_A = 45^\circ\text{C}$ ($R_{thCA} = 0.6 \text{ K/W}$), module	48	57	A	
I_{FSM}	$T_{VJ} = 45^\circ\text{C}$; $V_R = 0$	$t = 10 \text{ ms}$ (50 Hz), sine	550	750	A
		$t = 8.3 \text{ ms}$ (60 Hz), sine	600	820	A
I^2t	$T_{VJ} = T_{VJM}$ $V_R = 0$	$t = 10 \text{ ms}$ (50 Hz), sine	500	670	A
		$t = 8.3 \text{ ms}$ (60 Hz), sine	550	740	A
I^2t	$T_{VJ} = 45^\circ\text{C}$ $V_R = 0$	$t = 10 \text{ ms}$ (50 Hz), sine	1520	2800	A ² s
		$t = 8.3 \text{ ms}$ (60 Hz), sine	1520	2800	A ² s
I^2t	$T_{VJ} = T_{VJM}$ $V_R = 0$	$t = 10 \text{ ms}$ (50 Hz), sine	1250	2250	A ² s
		$t = 8.3 \text{ ms}$ (60 Hz), sine	1250	2250	A ² s
T_{VJ}		-40...+150		$^\circ\text{C}$	
T_{VJM}		150		$^\circ\text{C}$	
T_{stg}		-40...+125		$^\circ\text{C}$	
V_{ISOL}	50/60 Hz, RMS	$t = 1 \text{ min}$	2500	V~	
	$I_{ISOL} \leq 1 \text{ mA}$	$t = 1 \text{ s}$	3000	V~	
M_d	Mounting torque (M5)		5 ± 15 %	Nm	
	Terminal connection torque (M5)		5 ± 15 %	Nm	
Weight	typ.		160	g	

Features

- Package with screw terminals
- Isolation voltage 3000 V~
- Planar passivated chips
- Blocking voltage up to 1800 V
- Low forward voltage drop
- UL registered E72873

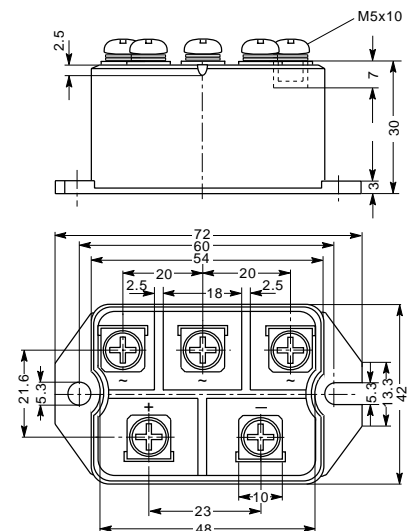
Applications

- Supplies for DC power equipment
- Input rectifiers for PWM inverter
- Battery DC power supplies
- Field supply for DC motors

Advantages

- Easy to mount with two screws
- Space and weight savings
- Improved temperature and power cycling

Dimensions in mm (1 mm = 0.0394")



Symbol	Test Conditions	Characteristic Values			
		VUO 62		VUO 82	
I_R	$V_R = V_{RRM}$; $T_{VJ} = 25^\circ\text{C}$	\leq	0.3	0.3	mA
	$V_R = V_{RRM}$; $T_{VJ} = T_{VJM}$	\leq	5	5	mA
V_F	$I_F = 150 \text{ A}$; $T_{VJ} = 25^\circ\text{C}$	\leq	1.8	1.6	V
V_{T0}	For power-loss calculations only		0.8	0.8	V
r_T			8	5	mΩ
R_{thJC}	per diode		1.45	1.1	K/W
	per module		0.24	0.183	K/W
R_{thJH}	per diode		1.87	1.52	K/W
	per module		0.31	0.253	K/W
d_s	Creeping distance on surface		10		mm
d_A	Creepage distance in air		9.4		mm
a	Max. allowable acceleration		50		m/s ²

Data according to IEC 60747 and refer to a single diode unless otherwise stated.
 IXYS reserves the right to change limits, test conditions and dimensions.

Looking for pricing, stock, or lifecycle information?

Click below to explore more details on WIN SOURCE:

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 [IXYS Information](#)

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