

Features:

- 1. Wide input range (180-264VAC, 254-370VDC)
- 2. 52*90*58.2mm compact size
- 3. No load power consumption <1.2W
- 4. Protection type: short circuit/over load/over voltage
- 5. Operating temperature range: -30°C to +70°C
- 6. 4000V isolation voltage
- 7. 100% high temperature burn-in and function test
- 8. 3 years warranty



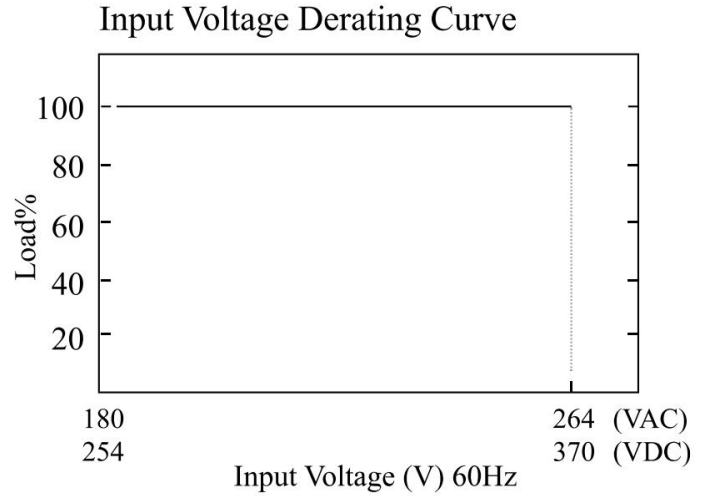
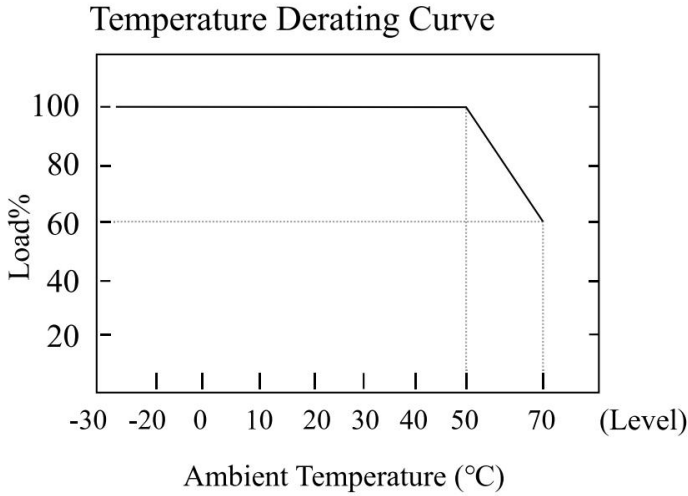
3 years
Warranty

Selection Guide

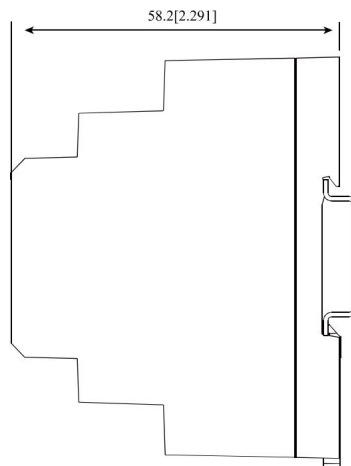
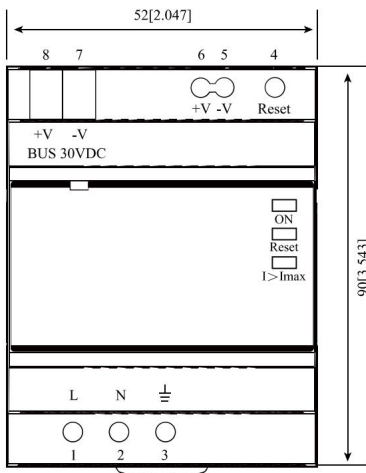
Model	Input Voltage	Rated Power (W)	Output Voltage (V)	Output Current (mA)	Maximum Capacitive Load (uF)	Efficiency (%)
KNX20-22A640	180-264VAC 254-370VDC	19.2	30	640	940	82

Specifications		
OUTPUT	Voltage Tolerance	±5.0%
	Line Regulation	±1.0%
	Load Regulation	Main circuit: ±6.0% Auxiliary circuit: ±4.0%
	Setup, Rise Time (Typ.)	1200ms, 30ms/230VAC 3000ms, 50ms/180VAC at full load
	Hold Up Time (Typ.)	200ms/230VAC at full load
	Ripple & Noise (Max.) (Note 2.)	90mVp-p
INPUT	Voltage Range	180-264VAC 254-370VDC
	Frequency Range	47-63Hz
	Current (Typ.)	0.25A/230VAC
	Inrush Current (Typ.)	45A/230VAC
	Hot Plug	Not supported
PROTECTION	Over Load	205-235% load, recovers automatically after fault condition is removed
	Short Circuit	Hiccup mode, recovers automatically after fault condition is removed
	Over Voltage	Turn off output, self-locking, restart recovery, protection range 33V-35V
FUNCTION	Reset	There is a button to reset the KNX bus product. Simply press the button for 20 seconds to reset the KNX bus product
	LED Indication	LED1 green indicates normal operation; LED2 green indicator reset; LED3 red indicates output overcurrent and short circuit
	Choke Coil	Product integration choke coil
ENVIRONMENT	Working Temp.	-30°C to +70°C (Refer to "Derating curve")
	Working Humidity	85%RH max
	Storage Temp., Humidity	-40°C to +85°C, 10-95%RH
	Temp. Coefficient	0.03%/ (0-50°C)
	Vibration	10-500Hz, 2G, 10min./1cycle, 60min.each along X, Y, Z axes
SAFETY & EMC (NOTE 3.)	Safety Standards	EN62368, IEC62368, UL62368
	Isolation Voltage	I/P-O/P: 4000VAC I/P-FG: 1500VAC O/P-FG: 500VAC
	Isolation Resistance	I/P-O/P: >100M Ohms/500VDC 25°C 70% RH
	EMC Emission & Immunity	EN55011, EN55032 (CISPR32)
	ESD	IEC/EN 61000-4-2 level 4 Contact 8kV/Air 15kV
	RF	IEC/EN 61000-4-3
	EFT	IEC/EN 61000-4-4 level 4 4kV
	Surge	IEC/EN 61000-4-5 level 4 line to line 2kV/line to ground 4kV
OTHERS	MTBF	200K hrs min. MIL-HDBK-217F (25°C)
	Dimension	52*90*58.2mm
	Weight	150g
NOTE	1. All parameters not specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.	
	2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uF & 47uF parallel capacitor.	
	3. The power supply is considered as an independent unit, but the final equipment still need to re-confirm that the whole system complies with the EMC directives.	

Typical Characteristics Curve



Mechanical Specification



Pin Mode			
Port	Function	Port	Function
1	L	4	Reset
2	N	5	-Vo2
3	$\perp$	6	+Vo2
LED1	ON	7	KNX Bus -Vo1
LED2	Reset	8	KNX Bus +Vo1
LED3	I > I _{max}		

Notes:

1. If the product works under the minimum required load, it cannot guarantee that the performance of the product complies with all the performance indicators in this manual;
2. The maximum capacitive load is tested under the input voltage range and full load condition;
3. Unless otherwise stated, all indexes in this manual are measured at Ta=25°C, humidity <75%RH, nominal input voltage and rated output load;
4. All index testing methods in this manual are based on the enterprise standards of the company;
5. Our company can provide product customization, specific needs can directly contact our technical staff;
6. AMCHARD reserves the right to make changes to the product at any time without notice.