

Features:

1. Wide input range (180-264VAC, 254-370VDC)
2. 52*90*58.2mm compact size
3. Safety extra low voltage
4. Protection type: short circuit/over load/over voltage/ over temperature
5. Operating temperature range: -30°C to +70°C
6. Equipped with work indicator light, reset indicator light, and over load indicator light
7. Rail type packaging, can be installed on TS-35/7.5 or TS-35/15
8. Over voltage level III, altitude up to 2000 meters
9. 4000V isolation voltage
10. 100% high temperature burn-in and function test
11. 3 years warranty



3 years
Warranty

Selection Guide

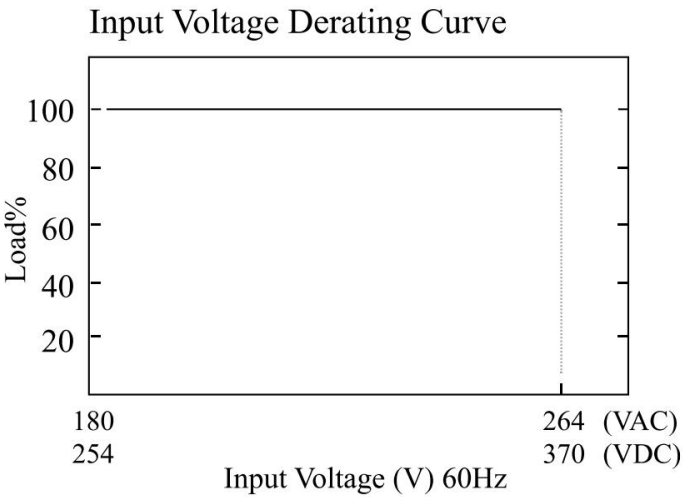
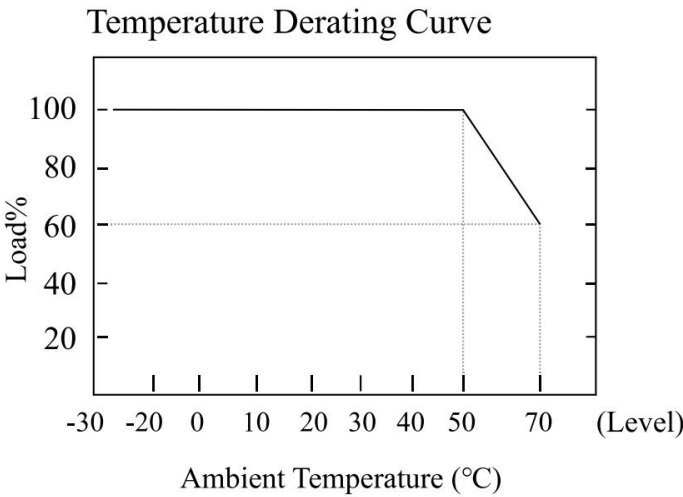
Model	Input Voltage	Rated Power (W)	Output Voltage (V)	Output Current (mA)	Maximum Capacitive Load (uF)	Efficiency (%)
KNX40-22A1280	180-264VAC 254-370VDC	38.4	30	1280	2200	89 (Before the choke coil)
						87 (After the choke coil)

Specifications

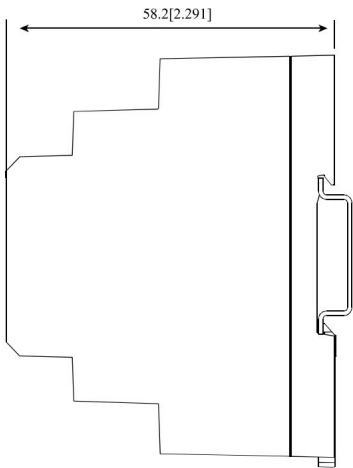
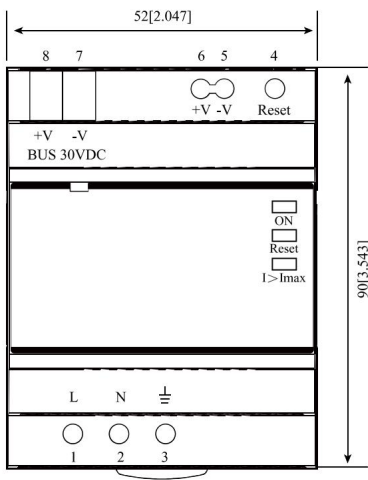
OUTPUT	Voltage Tolerance	±5.0%
	Line Regulation	±1.0%
	Load Regulation	Main circuit: ±6.0% Auxiliary circuit: ±4.0%
	Setup, Rise Time (Typ.)	1200ms, 30ms/230VAC 3000ms, 50ms/180VAC at full load
	Hold Up Time (Typ.)	150ms/230VAC at full load
	Ripple & Noise (Max.) (Note 2.)	100mVp-p
INPUT	Voltage Range	180-264VAC 254-370VDC
	Frequency Range	47-63Hz
	Current (Typ.)	0.5A/230VAC
	Inrush Current (Typ.)	60A/230VAC
	Hot Plug	Not supported
PROTECTION	Over Load	105-230% load, constant current limiting mode, recovers automatically after fault condition is removed
	Short Circuit	Constant current protection, short circuit current 2.8A
	Over Temperature	In addition to heat protection for power devices, add overcurrent protection for choke coils
	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 over current 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, EN/EN61558
	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	225g
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	⏏	6	+Vo2
LED1	ON	7	KNX Bus -Vo1
LED2	Reset	8	KNX Bus +Vo1
LED3	I > Imax		

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 $T_a=25^{\circ}\text{C}$, humidity $<75\%\text{RH}$, 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.