

PAC2700S54-CB Power Module



Introduction

PAC2700S54-CB cassette AC-DC power module has 90 to 290Vac wide input voltage and single output of -53.5V. The module is configured with fan for cooling through a front-to-back airflow, support CAN communication and multi modules current sharing. Surge protection meet IEC61000-4-5 and ITU-TK.21 standard. Be suitable for switches, blade server, routers, transport network equipments and so on.



Features

- Over current protection
- Short circuit protection
- Output overvoltage protection
- Over temperature protection
- CAN communication protocol
- Suitable for the TT, TN, IT power supply system
- N+N, N+M redundant backup

Specification

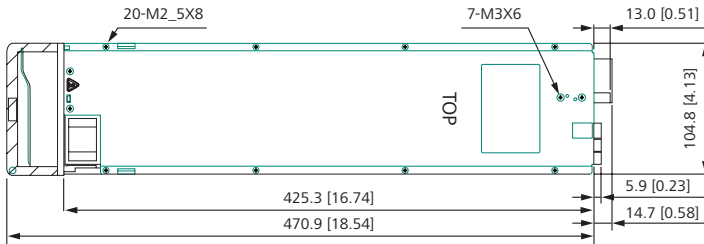
	Model	Parameter	Notes & Conditions
Output characteristics			
Output voltage range	PAC2700S54-CB	-53.5V	-
Output power	PAC2700S54-CB	2700W ≤1200W	Vin=176 - 290V AC Vin=90 - 175V AC
Output line regulation	PAC2700S54-CB	1%Vo	Vin=90 - 290 VAC; Po=2700W
Output load regulation	PAC2700S54-CB	1%Vo	Vin=220 VAC; Po=0 - 2700W
Output ripple and noise (PK-PK)	PAC2700S54-CB	300mV	Oscilloscope bandwidth: 20 MHz
Input characteristics			
Operating input voltage	PAC2700S54-CB	90 - 290 VAC@50/60Hz	-
Maximum input current	PAC2700S54-CB	18.5A	Vin=220 VAC; Po=2700W
Power factor	PAC2700S54-CB	0.98	Vin=220 VAC; Po=2700W
Protection characteristics			
Input OVP	PAC2700S54-CB	Turn on: 290V AC Turn off: 300V AC	Hysteresis: 10.0V
Input UVP	PAC2700S54-CB	Turn on: 90V AC Turn off: 80V AC	Hysteresis: 10.0V
Output OVP	PAC2700S54-CB	58.5 - 60.5V	Latch-off
Over current Protection	PAC2700S54-CB	Iomax=61A@Vo=40 - 53.5V; Iomax=55A@Vout=30 - 40V; Iomax=35A@Vout=17 - 30V; Iomax=25A@Vout=0 - 17V;	Hiccup: power on-off repeatedly
Over temperature Protection	PAC2700S54-CB	-	Self-recovery
Absolute maximum ratings			
Operating ambient temperature	PAC2700S54-CB	-25 - 55°C	-
Storage temperature	PAC2700S54-CB	-40 - 70°C	-
Other characteristics			
CAN communication	PAC2700S54-CB	Input voltage/current/power Output voltage/current/power Output OVP/UVP alarm	-
Surge	PAC2700S54-CB	Line to earth: ±6kV Line to line: ±6kV	IEC61000-4-5/ITU-TK.21
Mean time between failures (MTBF)	PAC2700S54-CB	0.45 million hours	Telcordia SR332, Vin=220VAC, 100% load, TA=25°C

Model Selector

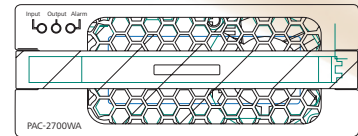
Model	Input Voltage	Output Voltage	Output Current	Output Power	Efficiency
PAC2700S54-CB	90 - 290 Vac	-53.5V	50.5A	2700W	95.5%

Mechanical Diagram

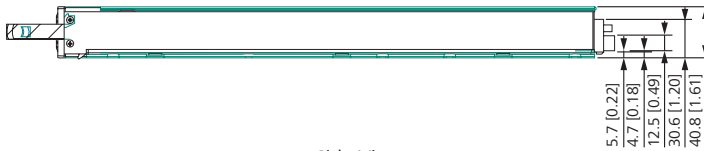
Unit: mm [in.]



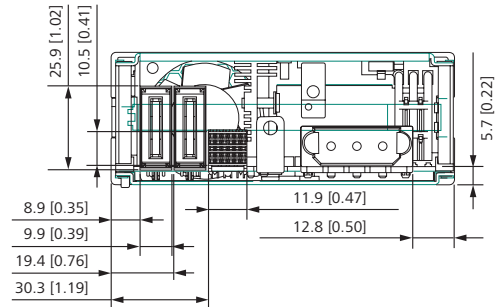
Top View



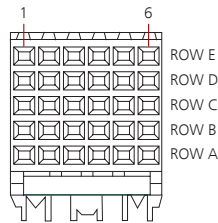
Front View



Side View



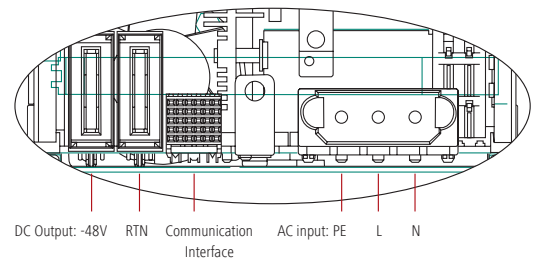
Back View



Communication interface

Pin definition of communication interface:

Pin	Definition	Description
A4	ISHARE+	ISHARE+
A5	ISHARE-	ISHARE-
A6	ADDR3	Address3
B1	PRESENT	To indicate to the system that the module is inserted in the power bay. This pin has been shorted to the VCC_GND in the module
B2	VCC_GND	Return loop of VCC which come from the system
B4, B5	ON/OFF	ON/OFF control signal (H:OFF; L:ON)
B6	ADDR2	Address2
C5	ADD5	Address5
C6	ADD1	Address1
D1	CAN_L_1	CAN L of channel 1
D3	CAN_L_0	CAN L of channel 0
D5	ADDR4	Address4
D6	ADDR0	Address0
E1	CAN_H_1	CAN H of channel 1
E3	CAN_H_0	CAN H of channel 0
E5	ENABLE	Output enable control (H:disable.L:enable), when "ON/OFF" and "ENABLE" both be enabled, the module can output
E6	ADDR_GND	Address signal GND
A1 - A3, C1 - C4, D2, D4, E2, E4	NA	-



Input connector: JONHON (CZ36E-3T)
Output socket:
DC output---MOLEX (75556-1500)
Communication interface: Tyco (5223008-1)

Tolerances
±0.5[0.02in.] (≤63[2.48])
±1.0[0.04in.] (>63[2.48])