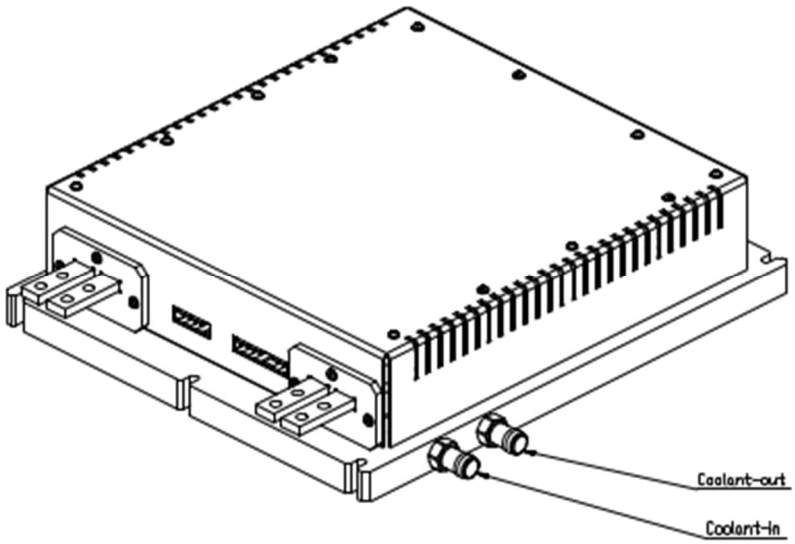
SD7008-X-48-KB-REV3
7000W

FEATURES



APPLICATIONS



SAFETY & EMC

RoHS² compliant 10 from 10

CE

BASIC CHARACTERISTICS

Parameter	Conditions	Min.	Typ.	Max.
Input				
Input Voltage	30VDC - 70VDC		48VDC	
Aux Input		16VDC		32VDC
Max Input Current				200A
Input Power	No Load	<80W		
	Stand By	<5W		
Output				
Output Voltage Range		38V		60V
Iout Nom		10A		190A
Iout Min		0A		
Max Output Power	Vout 38VDC - 60VDC			7000W
Line Regulation and Load Regulation	VIN (min-max) LOAD (10-90%)		±5%	
Ripple and Noise	0-20MHz		2% Vout	
Efficiency				Up to 96%

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ENVIRONMENTAL

Parameter	Conditions	Value
Storage Temperature		-40°C to 85°C
Operating Temperature		-10°C to 60°C
Base Plate Temperature		Max 75°C
Humidity		0-95%
Cooling	Contact Base Plate with Additional Ventilation	
Vibration		5G Max for Transportation

PROTECTIONS

Parameter	Value
Overvoltage Protection (Input Protection)	YES
Over-Current Protection (Output)	At 100-110% Imax
Overvoltage Protection (Output)	At 1.2-1.35% Vnom
Heatsink Over Temperature Protection	At 95°C
Reverse Polarity Protection	Mosfet

EMC

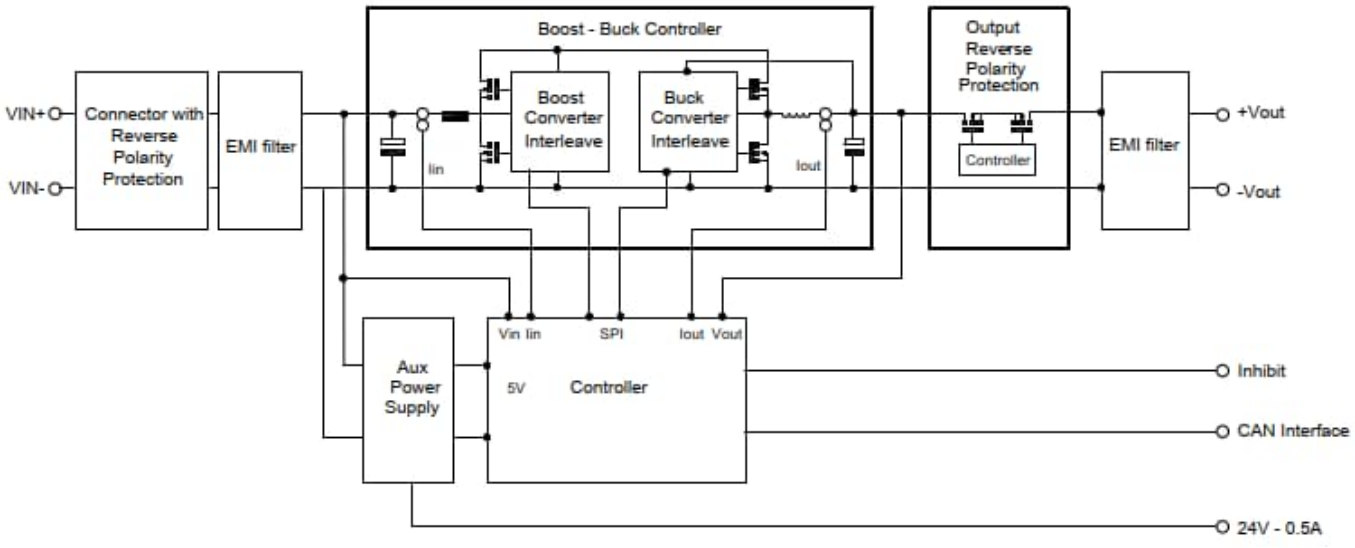
	Standard
Emission (On AUX Input Only)	EN 61000-6-4
Immunity (On AUX Input Only)	EN 61000-6-2
(On AUX Input Only)	EN 61000-6-1
IPC-A-610D Level 2 (Manufacture)	
RoHS	
Enclosure	IP20
CE	
CISPR11	

CONTROL

Parameter	Value
Inhibit	Open Contact = PWM Off
	Close Contact = PWM On
CAN Interface	Reading the Measurements of Iin, Iout, Vin, Vout

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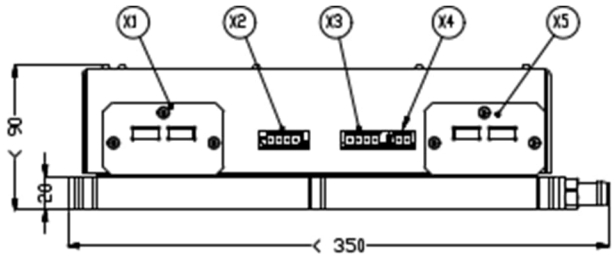
BLOCK DIAGRAM

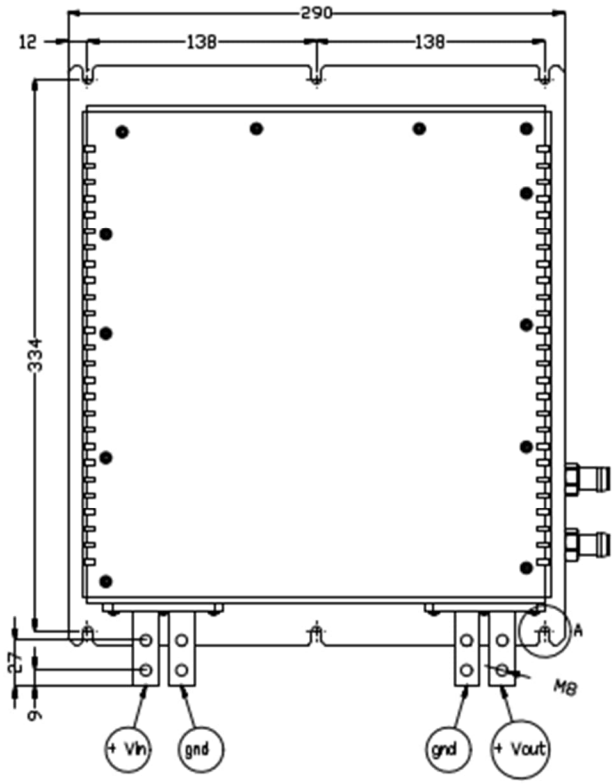


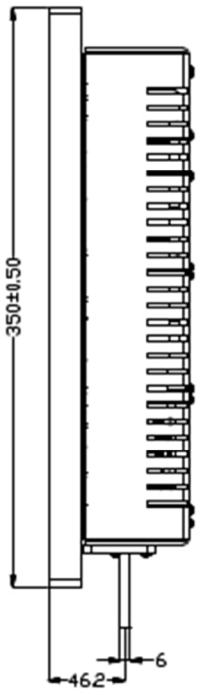
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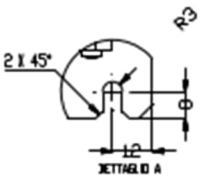
DIMENSION

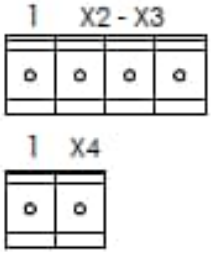
Parameter	Type	Value
Weight		9.7Kg











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CONNECTIONS

Pin	Value	Note	
X1	+Vin		
	-Vin		
X2		Open	Closed
	1. INHIBIT	On	Off
	2. COM		
	3. ENABLE	Battery Charger	Power Supply
	4. COM		
X3	1. +5V		
	2. CAN-H		
	3. CAN-L		
	4. COM-CanBus		
X4	1. +24Vaux (16VDC-32VDC)		
	2. COM Vaux		
X5	+Vin		
	-Vin		

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