



A4 - 12

PURCHASE SPECIFICATION
GROUP: TRACTION ENGINEERING

P.S NO. : PS/445/2704

REV. NO: 00

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REVISION HISTORY SHEET

REV. NO.	DATE	NATURE OF CHANGE	REASONS	PREPARED BY	APPROVED BY
00	07.1.2021	FIRST ISSUE	--	--	--

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REVISIONS 00 DT: 07.1.2021

APPROVED BY:

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SPECIFICATION FOR
POWER SUPPLY



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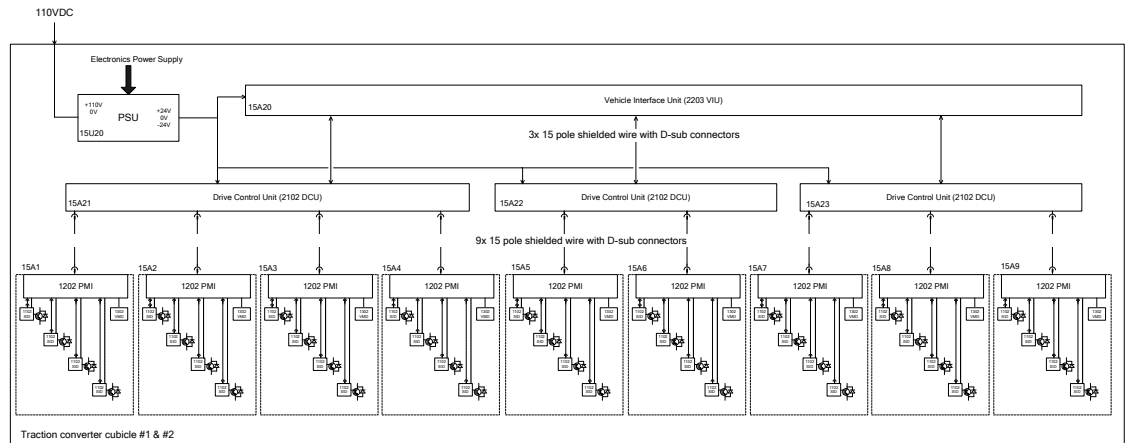
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1.0 INTRODUCTION:

The electronics power supply is a DC/DC converter 110V / ± 24 VDC used to power up the control circuit of Traction Converter.

2.0 FUNCTION:



The power supply receives 110V DC from the locomotive battery and generates 24V out of that for powering up the control circuit of traction converter. The Temperature classification of the electrolytic capacitors used in power supply is 105°C.



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3.0 CHARACTERISTICS

SI No	Characteristic	Value
1	Input Voltage Range	77V-143V
2	Output voltage	± 24V
3	Response Time	<5ms
4	Ripple	2m0Vpp
5	Efficiency	92%
6	Output current	±10A
7	Power	480W
8	Power Good (PG)	LED & Relay contact
9	Hold-up time	10ms
10	Build in position	Vertical
11	Ambient Temperature	-40°C to +85°C
12	Fuse (internal)	12.5 AT
13	Input cross plugging protection	Active diode
14	Connector	WAGO : Type 745 0.2-6mm
		Phoenix : MC 1.5/8 GF-3.81
15	Dimensions	L x W x H (Connector)
		261mm x 250mm x 64mm (76mm)
16	Cooling	Natural Cooling

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