

HACKLAB SOLUTIONS ASSESSMENT

3.2 **Datasheet:** <https://www.ti.com/lit/ds/symlink/l293d.pdf>

3.2.1 What is the logic voltage level, 3.3V or 5V?

Ans. The Recommended voltage operating conditions are

6.3 Recommended Operating Conditions

over operating free-air temperature range (unless otherwise noted)

		MIN	NOM	MAX	UNIT
Supply voltage	V _{CC1}	4.5		7	V
	V _{CC2}		V _{CC1}	36	
V _{IH}	High-level input voltage	V _{CC1} ≤ 7 V		V _{CC1}	V
		V _{CC1} ≥ 7 V		7	V
V _{IL}	Low-level output voltage	−0.3 ⁽¹⁾		1.5	V
T _A	Operating free-air temperature	0		70	°C

From the above Reference table, the logic voltage level is **5V**.

3.3 **Datasheet:**

<https://www.mouser.in/ProductDetail/MEAN-WELL/RSD-60H-12?qs=5aG0NVq1C4wDzUjdt7OeBg%3D%3D>

3.3.1. What is the input voltage range?

The minimum voltage required to operate is **40V** and maximum allowable voltage is **160V**. Range (40-160V).

3.3.2. Wattage of the converter

It is a 60W Reliable Railway DC-DC Converter

3.3.3. Is it an isolated or non-isolated converter?

It is an Isolated DC-DC converter.