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Seongnam-si, Gyeonggi-Do (Korea)

November 7, 2018

Letter of Conformance

Dear Madam/Sir

IXYS Korea hereby states that all revision R3.0 is indeed Gen 2. The R1.x belongs to Gen 1. R2.x does not exist. Gen 2 parts have same outlines as Gen 1, even though inside dies are different in efficiency and size. Gen 1 dies are made with 22% efficiency cell and bigger dies. Gen 2 dies are 25% efficiency cell and smaller dies. Now Gen 3 is optimized to achieve the maximum output power, which utilizes 25% efficiency cell with optimized die sizes, thus the outlines of Gen 3 is slightly different from both Gen 1 and Gen 2. Please refer to the below for more details.

- Gen 1 is made of 22% efficiency cells and is in the process of discontinuation. All revision R1.x belongs to Gen 1.
- Gen 2 is made of 25% efficiency cells and have same form factor as Gen 1 to allow pin to pin replacement. Compared to 22% eff. cell, Voc increases, Jsc(A/cm²) remains about same, and Pmax increases in 25% eff. cell. However, in order for pin to pin replacement, smaller dies are designed in Gen 2 to match Pmax between Gen 1 and Gen 2.
- Gen 3 is made of 25% eff. cell and is optimized to achieve the maximum output power. Gen 3 has slightly larger outlines than Gen 1 & 2 to utilize the optimized die sizes. Gen 3 is ideal for maximum output.

	Gen 1 (Discontinued)	Gen 2 (Suggested Replacements 1)	Gen 3 (Suggested Replacements 2)
Features	Discontinued (Gen 1 - Eff. 22% cell)	<ul style="list-style-type: none"> • Same form factor as Gen 1 • Directly replaceable with Gen 1 (Gen 2 - Eff. 25% cell) 	<ul style="list-style-type: none"> • Analogous form factor as Gen 1 • Maximized electrical performance (Gen 3 - Eff. 25% cell)
1	KXOB22-12X1F	KXOB25-12X1F	KXOB25-14X1F
2	KXOB22-04X3F	KXOB25-04X3F	KXOB25-05X3F
3	KXOB22-01X8F	KXOB25-01X8F	KXOB25-02X8F
4	SLMD121H04L	SM111K04L	SM141K04LV
5	SLMD121H06L	SM111K06L	SM141K06L

6	SLMD121H08L	SM111K08L	SM141K08L
7	SLMD121H09L	SM111K09L	SM141K09L
8	SLMD121H10L	SM111K10L	SM141K10LV
9	SLMD360H10L	SM340K10L	SM400K10L
10	SLMD480H12L	SM470K12L	SM500K12L
11	SLMD600H10L	SM560K10L	SM700K10L
12	SLMD720H12L	SM710K12L	SM730K12L
13	SLMD860H12L	SM850K12L	SM850K12L
14	SLMD960H09L	SM940K09L	SM101K09L
15	SLMD960H12L	SM940K12L	SM101K12L
16	SLMD321H09L	SM301K09L	SM351K09L
17	SLMD481H08L	SM451K08L	SM531K08L
18	SLMD481H10L	SM451K10L	SM531K10L
19	SLMD481H12L	SM451K12L	SM531K12L
20	SLMD242H12L	SM232K10L	SM262K10L



David So / General Manager

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