

# (3)

## 2.2. Cell stack

### 2.2.1.

Cell Stack 가 ,  
 2,411 ,  
 1,209 50%  
 (800 /33%), (269 /11%)  
 133 (6%) 가 가  
 가 10  
 Cell Stack  
 Cell Stack 가 ,  
 , MEA, , 가 ,  
 Cell Stack ,  
 2,411 , 가 737  
 31% , 533 (22%),  
 458 (19%), MEA 400 (17%), 227 (9%), 가  
 56 (2%)  
 Cell Stack ,  
 , Matsushita Electric 55 ,  
 SDI가 27 , MEA Matsushita Electric  
 Asahi Glass가 29 , Nisshinbo가 43 ,  
 Honda Giken 29 , 가 Nissan  
 Motor가 3 가

### 2.2.2.

Cell Stack ,  
 1999 가  
 .  
 Nissan Motor, Toyota Motor, Matsushita Electric,  
 Honda Motor 2001 가  
 , SDI 71 57 2003  
 . /  
 , (49 ) SDI가 2002 2  
 2004 44  
 ,  
 1999 2001 2004  
 .  
 /  
 , Honda Giken(49 ) 93  
 2002 20  
 , 5 Asahi  
 Glass가 2005 12  
 . /  
 , (90 ) Honda Motor가 1991  
 2001 36  
 , 1999 2004  
 .  
 /  
 , , (18 )  
 Matsushita Electric 1996 2003  
 3-5  
 가 , 452

(737 ) 62% ,  
 177 , 76 , 32  
 , 96%

가 , 가  
 227 (533 ) 42% ,  
 가201 (38%), 가58 (11%),  
 가7 (9%) ,  
 94%

2.3.  
 2.3.1. 가  
 가  
 3,565 가1,519 43%  
 , 1,293 (36%), 472  
 (13%), 281 (8%)

/  
 , 가395 38%  
 , 1059 , 377 ,  
 281 , 279 , 174

,  
 1985 1995  
 2000  
 가 , 2000  
 가 가

, 85 2000  
 가2000

가 , 96  
 2000 ,

2.3.2.  
 ,  
 11 가1434 40%  
 ,  
 SDI(59 )가, Toyota  
 ota Motor(64 )가, /  
 General Motors(11 )가, Matsushita Electric(45  
 ) , Nissan Motor(208 )가

.  
 11 가  
 가 , Nissan Motor, SDI Toyota Motor  
 , , , Matsu  
 shita Electric , Mitsubishi Heavy  
 Fuji Electric

.  
 , 1985 1995  
 Hitachi, Toyota, Honda가,  
 Mitsubishi Electric, Sanyo Electric, Toyota Motor  
 Hitach가, Mitsubishi Electric ,  
 Toshiba Ballard가, Mit  
 subishi Electric, Toyota Motor, Sanyo Electric ,  
 Mitsubishi Electric, Sanyo Electric, Toyota Motor,  
 Toshiba, Ballard가

.  
 1996 2000 General  
 Motors Matsushita Electric , Toyota  
 Motor, Honda Motor, Sanyo Electric, Nissan Motor, General  
 Motors가, Mitsubishi Electric, Sanyo Electric,  
 Asahi Glass Ballard가, Toyota Motor,  
 Sanyo Electric, Nissan Motor Honda Motor가

.  
 2001 2005 Nissan  
 Motor, SDI, Toyota Motor, Matsushita Electric, Honda  
 Motor가, Matsushita Electric ,  
 Nissan Motor, SDI, Toyota Motor, Matsushita  
 Electric, Honda Motor가

2.3.3. IPC

IPC  
 2476 가 , H01M-008  
 003 381 , C01B-

2.3.4.

가 , 가  
 85  
 가 2001  
 96 2002  
 2004 54 ,  
 87  
 가  
 가 452  
 (1,030 ) 46% ,  
 383 , 107 , 88

가 , 146

(279 ) 52%

74 , 33 , 26

가 , 105

(174 ) 60%

52 , 9 , 8

가 , 127

(281 ) 46%

96 , 29

가 , 696

(1395 ) 49%

427 , 190 , 82

