Humanoid Robot BMS

The era of humanoid robotics is moving from exhibition to real-world commercialization. At inergy Technology, we empower this transition with high-performance power semiconductors designed for the next generation of Battery Management Systems (BMS). We deliver **high-power-density** and **low-impedance** solutions for the rigorous demands of robotic power systems.

Ultra-Compact Power Density :
By utilizing advanced Trench technology, we achieve ultra-low RDS(on) in compact designs.

Advanced Thermal Management :
Minimizes heat generation during static operation and the frequent motor start-stops.

Superior Ruggedness :
High Exceptional Single Pulsed Avalanche Energy (EAS), ensuring long-term stability and system reliability.

Charger(AC/DC)

iS065C10CE	SiC Diode	650 V	10 A		TO220-2L
iS065C08CE	SiC Diode	650 V	8 A		TO220-2L
iS065C06CE	SiC Diode	650 V	6 A		TO220-2L
iMN08N20T	N-ch MOSFET	200 V	7.7 mohm	114 A	TOLL
iM6239	N-ch MOSFET	200 V	8.7 mohm	120 A	TO220-3L

Battery Balancer

iM18113	N-ch MOSFET	100 V	10 mohm	51 A	DFN3.3x3.3
iM18127	N-ch MOSFET	100 V	18 mohm	24 A	DFN3.3x3.3
iM18115	N-ch MOSFET	80 V	11.3 mohm	44 A	PDFN3.3x3.3

BMS

iMN035N15T	N-ch MOSFET	150 V	3.8 mohm	203 A	TOLL
iM7133	N-ch MOSFET	150 V	4.3 mohm	170 A	TOLL
iM7117	N-ch MOSFET	150 V	5.1 mohm	148 A	TOLL
iM7207	N-ch MOSFET	100 V	1.2 mohm	400 A	TOLL
iMN009N10T	N-ch MOSFET	100 V	1.25 mohm	300 A	TOLL
iMN01N10T	N-ch MOSFET	100 V	1.4 mohm	300 A	TOLL
iM7125	N-ch MOSFET	100 V	1.5 mohm	250 A	TOLL
iMN007N08T	N-ch MOSFET	80 V	0.9 mohm	500 A	TOLL
iM7203	N-ch MOSFET	80 V	1.68 mohm	306 A	TOLL
iMN1R5N08G	N-ch MOSFET	80 V	1.8 mohm	200 A	PDFN5x6
iM7L03	N-ch MOSFET	80 V	0.95 mohm	300 A	TOLT