

WHO ARE WE?

PARA LIGHT was founded in 1987, and listed on Taiwan Stock Exchange (TWSE) in 2008 (ticker number 6226).



PARA LIGHT Electronics is a global leader in LED display and lighting design and manufacturing. Expanding its expertise, the company is now moving into the power semiconductor sector, focusing on both discrete devices and power modules incorporating high-efficiency IGBTs and SiC MOSFETs.

· Founder and the Chairman:
Mr. David Ma

· Capital:
US\$37 million

· No. of Employee:
676

Reasons to Choose Para Light's 7th-Gen IGBT and SiC MOSFET

· Competitive Pricing

· Consistency High Quality
- No BIN 2 Parts

· Top Performance Based on Proven FOM

· Exceptional Thermal Stability

-G7 IGBT:

Advanced design and manufacturing technology, proven consistency in key performance parameters.

-SiC MOSFET:

Lower thermal costs due to extra-low $R_{ds(on)}$ drift across the entire operating temperature range.



Regional Sales Contact Information

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PARA light

- IoT equipment
- Home appliances
- LED Lighting
- Gaming PC case or chassis
- Computer keyboard

光鼎電子股份有限公司

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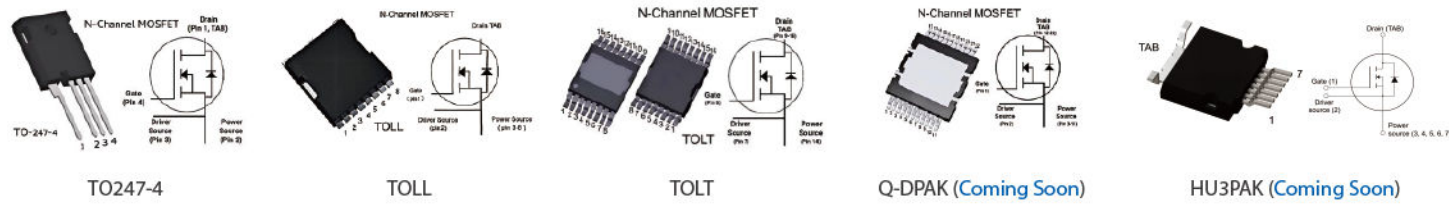
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POWER SEMICONDUCTORS

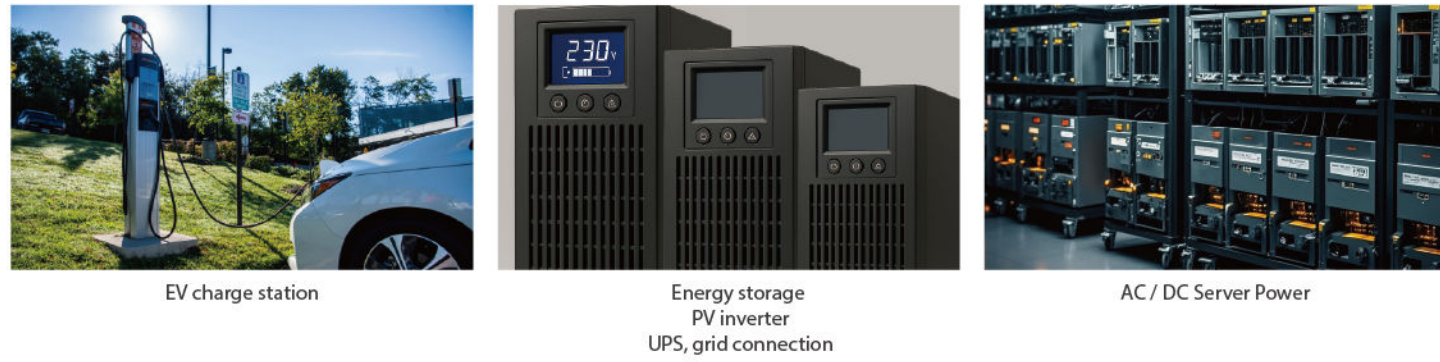


SiC MOSFET **NEW**



High-Efficiency Chips, Kelvin Source Pin, and Specialized Cooling Design

- ✓ **Up to 94.6% Wafer Yield Rate**
 - Ensures high performance with exceptional consistency
- ✓ **Kelvin Source Pin**
 - Helps reduce switching loss by up to 35%
- ✓ **Double-Side Cooling**
 - Available in TOLT and Q-DPK (HDSOP-22) packages for superior thermal management.
- ✓ **Wide Input Range of VGS(op) : -4/18V**



VDS (max)	Rds (on)	Id@25°C	Gate Voltage	Part Number	Package	Kelvin-Source Pin	Tvj, Operating Junction Temperature	Product Status
650V	10mΩ	155A	-4V/18V	PC010S065ANC	TO247-3L	No	-55 to 175°C	Active
	10mΩ	155A	-4V/18V	PD010S065ANC	TO247-4L	Yes	-55 to 175°C	Active
	21mΩ	110A	-4V/18V	PC021S065ANC	TO247-3L	No	-55 to 175°C	Active
	21mΩ	110A	-4V/18V	PD021S065ANC	TO247-4L	Yes	-55 to 175°C	Active
	36mΩ	64A	-4V/18V	PC036S065ANC	TO247-3L	No	-55 to 175°C	Active
	36mΩ	64A	-4V/18V	PD036S065ANC	TO247-4L	Yes	-55 to 175°C	Active
1200V	17mΩ	133A	-4V/18V	PC017S120ANC	TO247-3L	No	-55 to 175°C	Active
	17mΩ	133A	-4V/18V	PD017S120ANC	TO247-4L	Yes	-55 to 175°C	Active
	17mΩ	133A	-4V/18V	PV017S120LNC	Q-DPAK (HDSOP-22)	Yes	-55 to 175°C	2026Q2
	35mΩ	74A	-4V/18V	PC035S120ANC	TO247-3L	No	-55 to 175°C	Active
	35mΩ	74A	-4V/18V	PD035S120ANC	TO247-4L	Yes	-55 to 175°C	Active

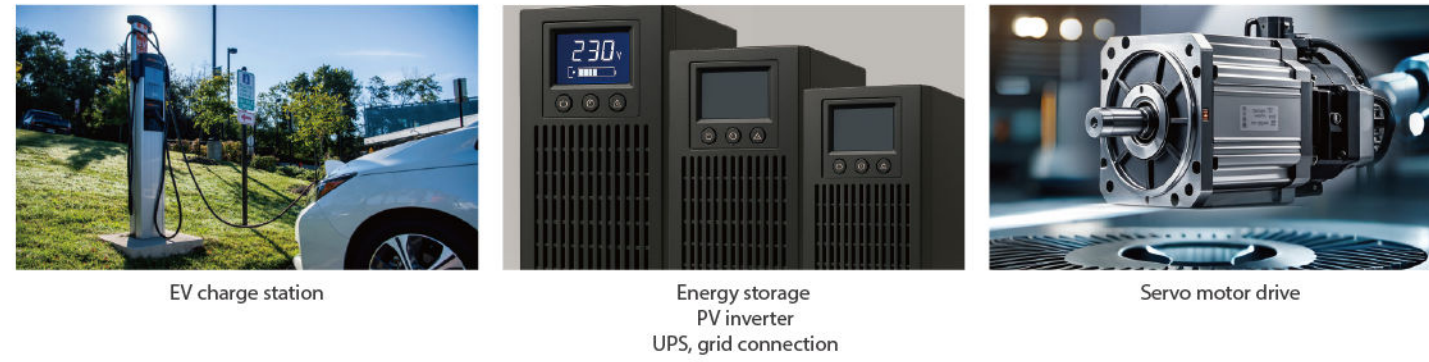
Gen 7 IGBT Discrete - Engineered for Industrial Excellence

Our Commitment :

- ✓ Consistent Quality
- ✓ Faster Delivery
- ✓ Competitive Pricing

Your Reliable Partner in Power Solutions

- ✓ **High Power-Conversion Efficiency**
 - Over 20% of operating power loss reduced compared to previous G6th-generation IGBTs.
- ✓ **Advanced Technology, Stable and Highly Consistent Performance**
 - Proven through HTRB certification and high-temperature overload test.
- ✓ **Wide Switching Frequency Range (Fsw: 1 kHz – 60 kHz)**
 - Supports flexible system designs: PV inverters, motor drives, UPS, EV charging stations, BMS, and power conversion systems.
- ✓ **Exceptional Short-Circuit Durability**
 - Tsc > 5 μs at 175°C
- ✓ **Integrated Fast Recovery Diode (FRD)**



BVce	Id max.	Part Number	FRD / SBD Built-in	VCE-sat. typ.@25°C	Package	MP Status
650V	40A	PC40N065AH7S	YES	2.40V	TO-247-3	Active
	50A	PC50N065AH7S	YES	1.60V	TO-247-3	Active
	75A	PC75N065AH7S	YES	1.80V	TO-247-3	Active
	120A	PCA2N065AM7S	YES	1.40V	TO-247-3	Active
	40A	PC40N120AH7S	YES	1.75V	TO-247-3	Active
1200V	60A	PC60N120GH7S	YES	1.80V	TO-247Plus-3	Active
	75A	PC75N120GH7S	YES	1.95V	TO-247Plus-3	Active
	100A	PC7A0N120GH7S	YES	1.80V	TO-247Plus-3	Active
	120A	PCA2N120GA7M	YES	1.68V	TO-247Plus-3	Active
	150A	PCA5N120GH7S	YES	1.90V	TO-247Plus-3	Active

Gen 7 IGBT Module

The Optimal Choice for Industrial Applications



- ✓ Higher Power Density
- ✓ Lower Cost
- ✓ Stable & High Performance
- ✓ Easier to Design
- ✓ Popular Spec or Custom Spec Available



BVce	Id max.	Part Number	FRD Built-in	Vce-sat. typ.@25°C	Package	MP Status
1200V	25A	PM025BB120XS1	Yes	1.80V	Easy1B	Active
	40A	PM040BA120XS1	Yes	1.60V	Easy2B	Active
	100A	PM100T1120HS1	Yes	1.70V	34mm	Active
	150A	PM150T1120HS1	Yes	1.70V	34mm	Active
	300A	PM300T2120HS1	Yes	1.85V	62mm	Active
	450A	PM450T2120HS1	Yes	2.10V	62mm	Active
	450A	PM450TA120HS1	Yes	1.60V	EconoDual3	Active
	600A	PM600TA120HS1	Yes	2.00V	EconoDual3	Active
	900A	PM900TA120HS5	Yes	1.70V	EconoDual3	Active
	100A	PM100T5120FS1	Yes	1.70V	PIM2	Active
100A	PM100T6120XS1	Yes	1.70V	PIM3	Active	
150A	PM150T6120XS1	Yes	1.70V	PIM3	Active	