

# POLARP3™ POWER MOSFETS

NEXT GENERATION OF ENERGY-EFFICIENT AND RELIABLE POWER-SWITCHING SOLUTIONS



## Applications

- SMPS
- Uninterruptible Power Supply
- Power Factor Correction Circuits
- DC-DC Converters
- Laser Drivers
- Battery Chargers
- AC and DC Motor Drives
- Robotics and Servo Controls
- Solar Inverters
- Lamp Ballasts

## Features

- International Standard Packages
- Dynamic  $dV/dt$  Rating
- Fast Intrinsic Rectifier (HiPerFET™ Versions)
- Avalanche Rated
- Low  $R_{ds(on)}$
- Ultra Low  $Q_g$
- Low Package Inductance

Part Number	V <sub>ds</sub> max	I <sub>D</sub> T <sub>c</sub> =25°C	R <sub>ds(on)</sub> max T <sub>J</sub> =25°C	Q <sub>g</sub> typ	P <sub>d</sub>	R <sub>thJC</sub> max	Package Type
IXFH60N50P3	500V	60A	0.100Ω	96nC	1040W	0.12°C/W	TO-247
IXFK78N50P3	500V	78A	0.068Ω	147nC	1130W	0.11°C/W	TO-264
IXFX98N50P3	500V	98A	0.050Ω	197nC	1300W	0.096°C/W	PLUS247
IXFN132N50P3	500V	112A	0.039Ω	250nC	1500W	0.083°C/W	SOT-227
IXFB132N50P3	500V	132A	0.039Ω	250nC	1890W	0.066°C/W	PLUS264
IXFH50N60P3	600V	50A	0.145Ω	94nC	1040W	0.12°C/W	TO-247
IXFK64N60P3	600V	64A	0.095Ω	145nC	1130W	0.11°C/W	TO-264
IXFX80N60P3	600V	80A	0.070Ω	190nC	1300W	0.096°C/W	PLUS247
IXFN110N60P3	600V	90A	0.056Ω	245nC	1500W	0.083°C/W	SOT-227
IXFB110N60P3	600V	110A	0.056Ω	245nC	1890W	0.066°C/W	PLUS264

[www.ixys.com](http://www.ixys.com)

**IXYS POWER**

Efficiency Through Technology

### EUROPE

IXYS GmbH  
marcom@ixys.de  
+41 (0)32 37 44 020

### USA

IXYS Power  
sales@ixys.com  
+1 (408) 457-9004

### ASIA

IXYS Taiwan  
sales@ixys.com.tw  
+866 2 2523 6368