

## Product Overview

### STK581U3C2D-E: Intelligent Power Module (IPM), 600 V, 30 A

For complete documentation, see the data sheet.

This "Inverter IPM" is highly integrated device containing all High Voltage (HV) control from HV-DC to 3-phase outputs in a single SIP module (Single-In line Package). Output stage uses IGBT/FRD technology and implements Under Voltage Protection (UVP) and Over Current Protection (OCP) with a Fault Detection output flag. Internal Boost diodes are provided for high side gate boost drive.

### Features

- Single control power supply due to Internal bootstrap circuit for high side pre-driver circuit
- All control input and status output are at low voltage levels directly compatible with microcontrollers
- Built-in cross conduction prevention
- Externally accessible embedded thermistor for substrate temperature measurement
- Certification : UL1557 (File Number : E339285)

### Part Electrical Specifications

Product	Compliance	Status	Family	Rated Voltage Min (V)	$I_o$ @ 25 °C Min (A)	$V_{CE(sat)}$ @ 25 °C Typ (V)	$R_{DS(on)}$ ( $\Omega$ )	Emitter Configuration	Shutdown Pin	Package Type
STK581U3C2D-E	Pb-free	Active	DIP IPM Series	600	30	1.8	N/A	3 emitter pins	Yes	SIP-22

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