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# COMBINED SURGE & EFT COUPLER/DECOUPLERS

## KeyTek ECAT® Model E455x



Single and three-phase AC line coupler/decouplers for EFT and Surge waves, as specified by IEC 61000-4-4 Edition 2 and IEC 61000-4-5

## ELECTRICAL

Model	Single or Three-phase	Voltage	Current** per phase
E4551A/E4551kV*	Single-phase	250V rms	15/16A***
E4552A/E4552kV*	Single-phase	277V rms	32A
E4553A/E4553kV*	Three-phase	480V rms	16A
E4554A/E4554kV*	Three-phase	480V rms	32A
E4555	Three-phase	600V rms	50A
E4556	Three-phase	600V rms	100A

\* kV version is required for operation with surge modules greater than 7kV, such as the E510A. All standard coupler/decoupler options apply

\*\* Actual current capability may be limited by the AC line connectors selected

\*\*\* Depends on connector selected. Typically 15A with U.S. NEMA connector; 16A with appropriate European style connectors

Coupling Mode	Coupling mode selection is controlled manually from the control selection center, or automatically using KeyTek SurgeWare <sup>®</sup> or BurstWare <sup>®</sup> software. Coupling is allowed from any line to any other line or combination of lines.
Monitoring	Monitoring and peak detection of surge voltage across any two manually-selected lines. Monitoring can be at the EUT or at the front panel of the coupler/decoupler.

Monitoring and peak detection of surge current in either High or Neutral, selected by the ECAT Control Center or the computer, measured without including back-filter surge current.

#### Options

E455x-DC AC Allows the E455x coupler/decoupler to be used with DC as well as mains. The DC current ratings for essentially resistive loads are:

	to 48V	to 110 V	to 220V
E4551A/E4551kV	15A	5A	0.8A
E4552A/E4552kV	15A	5A	0.8A
E4553A/E4553kV	20A	8A	1.2A
E4554A/E4554kV	25A	8A	1.2A
E4555	50A	50A (120V)	30A
E4556	100A	50A (120V)	30A

E455x-VI
Enhanced V and I monitoring. Adds monitoring and peak detection of surge voltage and current. Upper and lower limits can be placed on surge peaks. Monitoring of 3 wires is provided in single-phase systems, 5 wires in three-phase systems. Selection of the V and I inputs is performed from the control center or can be made automatically with SurgeWare control software
E455x-HV
Increases the AC mains voltage rating from 277V to 480V rms in the

E4552, and from 480V to 600V rms in the E4553 and E4554. The HV<br/>option is not available in the E4551, E4555 and E4556.PhysicalPhysical size of module varies depending on model number

# PQF<sup>™</sup> (POWER QUALITY FAILURE) MODULES

## KeyTek ECAT Models EP61 and EP62



Plug-in modules provide swells, dips and interrupts on AC power mains in compliance with, and exceeding the requirements of IEC 61000-4-11 Edition 2. Model EP61 for single-phase AC lines to 240 RMS, 16A; Model EP62 for single-phase AC lines to 240 RMS, 32A

#### AC INPUTS/OUTPUTS

Input Voltage for 100%	50 to 240V at 50Hz and to 277V at 60Hz		
Output Voltages on the Selected Phase	0% (open or short), 40%, 50%, 70%, 80%, 90%, 100%, 110%, 120% and 150%		
EP61 Output Current	16A at 250V; 20A at 125V*		
EP62 Output Current	32A at 250V; 30A at 125V*		
*The actual AC mains voltage and current limit is based on the mains connector selected.			

Inrush Current >250A at 120V; >500A at 220-240V **Event Duration** From 0.03 cycle (10°) to 500 minutes; maximum 12 events per cycle Switching Times 1-5µs into a 100 ohm load Overshoot <5% Undershoot <5% MEASUREMENTS rms Voltage 0-300V, 0.5% of range + 1% of reading rms Current 0-40A, 0.5% of range + 1% of reading 0-1000A, 1% of range + 5% of reading Peak Current Inrush Current Qualification Internal, built-in circuit according to IEC 61000-4-11. Automatically measures peak inrush current at 90° and 270°. Peak values are reported via the control software.

Minimum System Requirements: E100 series control center