

# RT7e - Same Power Higher Efficiency



## plug in better efficiency

The RT7 3 phase switched mode rectifier (SMR) has been RT's best seller since 2002. Its unique 3 phase input handling and unparalleled reliability has captured the attention of users throughout the telecoms and defence industries. Now with INCREASED efficiency and less weight, the RT7e is available for retrofitting at any installation using RT7 SMRs.

The RT7e is fully backward compatible with the original RT7, offering users a hassle free upgrade in efficiency. Simply remove your existing RT7 and replace them with the new RT7e, and your system experiences an instant increase in efficiency to >97% with NO DOWNTIME.

## RT7e vs RT7 compared

Model	RT7e	RT7
<b>Input</b>		
Input Voltage	304 - 530VAC	320 - 530VAC
Input Frequency	45-66 Hz	
Inrush Current	<16A peak	
Soft Start	Output current ramp-up time 7 seconds to 100A;	
THD	< 5%	
Power Factor	>0.99 @ >100%, >0.98 @ >50%,	
<b>Output</b>		
Output Voltage	43 - 60VDC	
Output Current	0 - 130A	
Output Power	6kW	
Load Sharing	Better than ± 5%	
Static Regulation	Better than ± 0.05%	
Dynamic Regulation	± 2% for 10-90-10% step load change	
Noise	< 2mV RMS Psophometrically weighted; < 10mV RMS (10kHz - 100MHz); < 100mV peak to peak (10kHz - 100MHz);	
Efficiency	Class A: > 97%	>91%
<b>Others</b>		
Protection	HRC Fuses, Soft Start, Over-voltage/current /temperature	
Weight	< 12kg	< 19kg
Dimensions	441(W) x 458(D) x 86(H) mm	
Operating °C & Humidity	-25°C to +70°C, 0 to 100% RH condensing including dripping water and icing conditions.	
Safety	Designed to IEC60950, AS/NZS 60950, UL60950	
EMC & Environmental	ETSI EN300386, ETSI EN300019	
Withstand Test	1500VAC input to chassis for 1 minute; (2200VDC 100% testing on production units);	

## product highlights

### Efficiency

An increase in efficiency to greater than 97%.

### 100% Compatibility

Fully backward compatible with original RT7. No specialized tools required for replacement.

### No System Downtime

Simply remove the existing RT7 and replace with new RT7e.

### Weight Cut By One Third

RT7e is 37% lighter than the RT7.

### No Feature Losses

All system features are preserved. The only thing that reduces is the power bill.

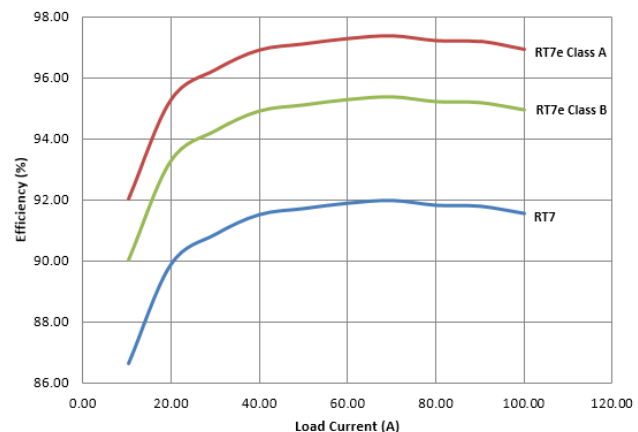
### Extending System Lifetime

Keep existing systems longer by replacing old RT7 with new and more efficient RT7e.

### AC Input Voltage Range

Wider 3Φ input voltage is now available between 304VAC—530VAC.

Efficiency vs Load at 400VAC



## Instant Efficiency Enhancement