

		Specification Mark 4 Beolec Series						Rev Change
		Market - Australia / NZ						
		Beolec 240		Beolec 550		Beolec 800		
Beolec Variants	Frame Type	Type 1		Type 2				
	Enclosure Style	DMP	DMP	ABB ArTuk	ABB Pro-E	DMP	ABB ArTuk	ABB Pro-E
Standards	Electrical safety and construction	AS/NZS 3439						
	EMC	AS/NZS 3439						
Application environment	Design Life	AS/NZS 61000-6.4 - 2012, Environment A						
	Rated Insulation voltage (Ui)	20 years						
	Rated impulse voltage (Uimp)	300/500V						
	Overvoltage category	6kV						
	Material group	IV						
	Pollution degree (external)	IIIa						
	Pollution degree (internal)	3						
	Degree of protection	IP42	IP42	IP54	IP54	IP42	IP54	
	Mounting	Floor						
	Location	Indoor						
Temperature range	-5°C to 40°C (max 24Hr avg 35°C)							
Short circuit withstand	25kA 0.1 Sec							
Protection	Cable protection	Upstream protection						
	Short circuit	Incoming MCCB	Incoming 630A gG Fuse	Incoming MCCB	Incoming 630A gG Fuse	Incoming MCCB	Incoming MCCB	
	Cascading Fault Mitigation	Module-based self-isolation						
	Regulating Fault	Automatic bypass on voltage imbalance or under voltage						
Input	Beolec Self Protection	Via Hard Bypass						
	Voltage	415/240						
	Max input voltage	440/253						
	Min input voltage	376/216						
	Freq	50						
	Standard	AS 60038						
	Fault current rating (kA)	25	25	25	36	25	25 / 78(peak)	
Output	Phases	3						
	Continuous amps/phase	240	550	800				
	Nominal kVA	170	395	575				
	Voltage Regulating Layer Rating (A)	80	55	80				
	Min output volts (min utilization volts)	376/216						
	Step size (Volts)	0.08						
	Response time (V/s) min	12.9						
	Regulation accuracy (±volts)	1.5						
	Voltage drop at Vout=Vin setpoint	2.0						
	Efficiency (%) @ 50% 100% loading	99.3% 99%						
Monitoring and Control	Voltage drop capability at max input	30	44	30				
	Maximum imbalance	4% for > 1 min -> Hard Bypass						
	Undervoltage alert	< 216V > 1 sec -> Alert						
	Thermal	Temperature monitoring of layer electronics, Internal ambient, external ambient -> Hard Bypass on overtemp						
Bypass	Control system	Standard - Change state Locally between regulating and hard bypass Standard - Change state Remotely between regulating and hard bypass Standard - Change state Automatically between regulating and hard bypass						
	Manual	Standard - Manual hard bypass via 3 way Isolator						
Communications	Beometer connection	Integrated 3G Modem						
Cooling & Ventilation	Cooling Type	Forced ventilation system						
	Vents and Filters	IP54 vents with replaceable filter						
Construction	Internal segregation	As per AS/NZS 3439						
	Size (W x D x H)	854 x 665 x 2076 mm	2016 x 665 x 2126 mm					
Physical	Weight (kg)	750kg	1800kg					
	Cabinet Material	Powder Coated Galvanised Steel						
	Colour	RAL 7035 Light Grey						
	Cabinet construction	1 x Regulating Phase Tower with Integrated Control Panel	3 x Regulating Phase Towers plus 1 x Control Tower					
	Access	Front Only						
Field wiring connections	Cables	3 x Active in, 3 x Active out, 1 x Neutral, 1 x Earth 1 cable per phase - max 95mm² each	3 x Active in, 3 x Active out, 1 x Neutral, 1 x Earth 1 cables per phase - max 300mm² each			3 x Active in, 3 x Active out, 1 x Neutral, 1 x Earth Up to 2 cables per phase - max 240mm² each		
	Earthing	up to 2 earth cable connection						
	Cable Entry	Top Entry						