






PEL Comparison Chart

PEL 100 Series Power & Energy Loggers				
		PEL 102	PEL 103	PEL 105
AEMC Catalog Number		2137.61	2137.62	2137.57
Number of inputs (V / A)		4V / 3A		5V / 4A
Number of input channels (V / A)		3V / 3A		4V / 4A
Voltage - AC (Phase-to-Neutral)		1000V		
Voltage - AC (Phase-to-Phase)		1700V		1000V
Voltage - DC		1000V		
Voltage Ratio - AC		13,000:1 (up to 650kV)		
Current AC / DC		12,000Aac / 5000Adc (probe dependent)		
Current Ratio - AC		5,000:1 (up to 25kA - with MN193 probe in 5A range)		
C P R O B E S	AmpFlex & MiniFlex (AC only)	200mA to 12,000Aac (MiniFlex 3000Aac max) @ 50/60Hz (Ranges reduced by 50% at 400Hz)		
	SR193 (AC only)	1A to 1200Aac		
	MN93 (AC only)	500mA to 240Aac		
	MN193 (AC Only) (dual range)	5mA to 6A (5A), 200mA to 120Aac (100A)		
	MR193 (AC/DC)	1A to 1000Aac/dc		
	SL261 (AC/DC) (dual range)	50mA to 10Aac/dc (10A), 5A to 100Aac/dc (100A)		
	J93 (AC/DC)	50A to 3500Aac/5000Adc		
Line Frequency		42.5 to 69Hz (50/60Hz), 340 to 460Hz (400Hz), DC		
Harmonics Recorded		orders 0 to 50 for Voltage and Current (each phase)		
Power Units Recorded		W, VA, var		
Energy Units Recorded		Wh, VAh, varh		
Other Parameters Recorded		PF, DPF(cos φ), tan φ, CF, THD(V,I), F(Hz)		
Distribution Systems		17		
Transient Detection		No		
InRush Capture		No		
Alarm Mode		No		
Sampling Rate		128 samples/cycle		
Aggregations (Fixed)		1 second	200 milliseconds, 1 second	
Aggregations (User Selectable)		1 to 60 minutes (12 choices)		
Phasor (Fresnel) Diagram		Yes - using DataView® Software (Included) or the PEL App for Android Devices (Google Play)		
Storage Of Recordings		SD card - 8GB Shipped (SD-HC up to 32GB upgradeable)		
Communications		USB, Bluetooth 2.1 (PC and Android App), Ethernet LAN		USB, Bluetooth 2.1(PC and Android App), Ethernet LAN, Ethernet Wi-Fi, Ethernet Direct, Wi-Fi Direct, IRD Server
Software		Yes - DataView® Included		
Display		No	Yes - Backlit Monochrome	
Front Panel Status LEDs		Recording, Bluetooth, Phase Order, OverLoad, SD Card, Battery		Recording, Bluetooth, Phase Order, OverLoad, SD Card, Battery, Power, Wi-Fi
Powered From Phase		Yes - with optional adapter (2137.77) - derates meter to 300V CAT III		Yes - built-in and switchable
Power Supply		120V/240Vac External Line Power using IEC 60320 C7 cable		120V/240Vac External 15V Adapter
Battery Backup For Ride-Through		NiMH Battery Pack (8.4V) ~1 hour		NiMH Battery Pack (9.6V) ~1 hour
Mounting		Embedded Case Molded-In Magnets, Hooked Slot For Hanging		Pole Mounting Kit (optional)
Electrical Safety		600V CAT IV, 1000V CAT III per IEC 61010		1000V CAT IV per IEC 61010
Protection		IP 54		
Dimensions		10.08 x 4.92 x 1.46"		10.6 x 9.65 x 7.1"
Weight		1.83 lbs	2.05 lbs	8.8 lbs
Warranty		2 year		
		PEL 102	PEL 103	PEL 105