









Comparison Chart MAVOWATT 30 / 40 / 50 / 70

MAVOWATT 30 Power Visa 	MAVOWATT 40 Power Guide 	MAVOWATT 70 Power Xplorer 	MAVOWATT 50 Power Xpert 
Measured Parameters			
4 differential inputs, 1-600 Vrms, AC/DC, $\pm 0.1\%$ rdg $\pm 0,05\%$ fs, 256 samples/cycle, 16 bit ADC		4 isolated inputs, 1-150/300/600/900 Vrms, AC/DC, 0,1% rdg, 100 KHz sampling, 16 bit ADC	
4 inputs with CTs 0.1-6000 Arms CT-dependent, AC/DC, $\pm 0.1\%$ rdg + CTs, 256 samples/cycle, 16 bit ADC		4 isolated inputs for CTs/ Shunts 300mV / 3 V, AC/DC, 0,1% rdg, 100 KHz sampling, 16 bit ADC	
-	-	1 MHz High Speed Sampling, 14 bit ADC, 1%FS	0,1 MHz High Speed Sampling, 16 bit ADC, 0,2 % rdg
Frequency Range 45-65 Hz and 15-20 Hz (fundamental)	Frequency Range 45-65 Hz and 15-20 Hz (fundamental)	Frequency Range 45-65 Hz and 15-20 Hz (fundamental) 45-65 Hz and 380-420 Hz (only MAVOWATT 70-400)	Frequency Range 15-1000 Hz (fundamental)
-	-	-	Suitable for Frequency Converter
Phase Lock Loop - Standard PQ mode	Phase Lock Loop - Standard PQ mode	Phase Lock Loop - Standard PQ mode, Generator Tracking	-
Intermittent Functional Characteristics		Intermittent Functional Characteristics	
Monitoring/Compliance			
EN50160 Quality of Supply / IEC 61000-4-30 Class A / IEEE 1159			
Long Term Monitoring / Continuous Data Logging with min / max / avg			
-	Current Inrush / Energization	Current Inrush / Energization	-
-	Voltage Fault recording	Voltage Fault recording	-
-	-	Mil Standard 1399 Testing (only MAVOWATT 70-400)	-
Power Quality Triggers			
Cycle-by-cycle analysis			
256 samples/cycle; 1/2 cycle RMS steps		10 μ s sampling rate; ; 1/2 cycle RMS steps	
L-L, L-N, N-G RMS Variations: dips/swells/interruptions			
RMS Recordings V & I 30 pre-fault, 100 post-fault cycles	RMS Recordings V & I 30 pre-fault, 10000 post-fault cycles		RMS Recordings 1750 samples, pre-fault / post-fault adjustable
Waveshape Recordings 2 / 6 / 2 cycles		Waveshape Recordings 3500 samples, 10/20/41/82/164 μ s sampling rate adjustable	
Low and Medium Frequent Transients - V & I		Medium Frequent Transients	
-	-	High Frequency Transients - V&I, from 1 μ s -3% FS trigger	High Frequency Transients
Harmonics Summary Parameters		Harmonics Summary Parameters	
Cross Trigger V & I Channels		-	
RMS Event Characterization IEEE or IEC		-	
-	Power Quality AnswerModules	Power Quality AnswerModuls	-
-	-	Transient Event Characterization	-
Distortion/Power/Energy			
W, VA, VAR, TPF, DPF, Demand, Energy, etc.		W, VA, VAR, TPF, DPF, Demand, Energy, etc.	
-	-	IEEE 1459 Parameters of	-
Harmonics THD / Harmonic Spectrum (V,A,W), Interharmonics TID / Interharmonic Spectrum (V,A) to 63rd per IEC 61000-4-7		Harmonics THD / Harmonic Spectrum (V,A,W), Interharmonics TID / Interharmonic Spectrum (V,A) to 50th per IEC 61000-4-7	
Flicker Pst, Plt, Sliding Plt, Pinst per IEC 61000-4-15		Flicker, Pst, Plt, Pinst per IEC 61000-4-15	
Crest Factor, K Factor, Transformer Derating Factor, Telephone Interference Factor		Crest Factor	
Unbalance (max. rms deviation) & sequencing components		Unbalance	
-	-	5 User Spec Harmonics or Signaling Frequency	-

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-	-	Vector / Arithmetic / Coincident Parameters	-
Inputs / Outputs			
-	-	-	1 Relay - Alarm Output
-	-	-	8 Digital Inputs - Status, Counter, Synchronisation to Suppliers Measurement, Start/Stop Registration
Interfaces & Software			
Optical Interface (option adapters for: RS232 or USB or Ethernet available, including NodeLink for data transmission)			Ethernet
-	-	-	Web Server
DranView Software (optional)			DranView or METRAWin 10 Software (optional)
Available Languages			
English / european version includes: EN, FR, FI, DE, IT, PO, ES, SE, English / asian version includes: EN, CN (simplified & traditional), JP, Korean, Thai			English, German
General Specifications			
Size: 12" x 2.5" x 8" (30cm x 6.4cm x 20.3 cm), Weight: 4.2 pounds (1.9 kg)			Size: 11.8" x 10" x 5.7" (29 x 24,5 x 14cm), Weight: 5.3 pounds (2,4 kg)
Protection Holster			-
Carrying Cases (optional)			Carrying Case
Operating Temperature: 0 to 50 °C (32 to 122 F), Storage Temperature: -20 to 55 °C (-4 to 131 F) Humidity: 10 to 90% non-condensing			Operating Temp.: -10 to 50°C (14 to 122 F), Storage Tem.: -20 to 70°C (-4 to 158 F), Humidity: 10 to 95% non-condensing
System Time Clock - crystal controlled - 1 second resolution			System Time Clock - Crystal controlled - 10 ms resolution - drift < 5 s/month
Charger / Battery Eliminator: 90-264 VAC 47-63 Hz Battery hold-up time: 3 hours			Power Supply 85-250 VAC/DC, 45-400 Hz / DC 12 VDC supply input and 12 VDC supply output for accessories Battery hold-up time: 30 mins
Display: LCD color touch screen			Display: LCD color touch screen 4 quick access buttons
Memory options (must have one): up to 32 GB removable compact flashcard (special version), ≥ 4 GB compact flashcard included			50 MB internal memory, expandable via USB disc drive or memory stick (customary) CF-Slot - compact flashcard (customary)