

AEMC Clamp-On Meter Comparison Chart

v0524

MODEL	566	CM605	505	514	404	606	205	407	607
Mission	TRMS AC Leakage Current	AC/DC Leakage Current	TRMS - AC/DC		TRMS - AC/DC - SOLAR/PV	TRMS - AC/DC/AC+DC - SOLAR/PV/POWER	TRMS - AC/DC/AC+DC - POWER	TRMS - AC/DC/AC+DC - POWER/ENERGY/HARMONICS/RECORDING	
GENERAL									
Catalog #	2139.83	7000.02	2139.82	2117.70	2139.22	2139.62	2139.40	2139.51	2139.61
Jaw Size	0.91" (23 mm)	0.45" (12 mm)	1.18" (30 mm)	1.575" (40 mm)	1.89" (48 mm)	2.36" (60 mm)	1.34" (34 mm)	1.89" (48 mm)	2.36" (60mm)
True RMS (TRMS)	•	-		•			•		
Auto AC/DC Detection		-		-			•		
VOLTAGE									
AC / DC / AC+DC	600 V / 600 V / -		600 V / 600 V / -	750 V / 1000 V / -	1200 V/1700 V/-	1200 V/1700 V/1200 V	1000 V / 1000 V / 1000 V		
Frequency Hz - Voltage	(50 - 500) Hz	(40 - 500) Hz	(48 - 400) Hz	1.0 Hz - 10 kHz	5.0 Hz - 20 kHz				
CURRENT									
AC	1 μ A - 60 A	1 mA - 100 A	400 A	1000 A	1000 A	2000 A	600 A	1000 A	2000 A
DC	-	1 mA - 100 A	400 A	1000 A	1500 A	3000 A	900 A	1500 A	3000 A
AC+DC	-	-	-	-	-	2000 A	600 A	1000 A	2000 A
Frequency Hz - Current	(50 - 500) Hz	(50 - 500) Hz	(48 - 400) Hz	1.0 Hz - 10 kHz	5.0 Hz - 2 kHz	5.0 Hz - 1 kHz	5.0 Hz - 3 kHz	5.0 Hz - 2 kHz	5.0 Hz - 1 kHz
Low Pass Filter / Hz	• / 60 Hz	- / -	- / -		- / -				
Current Probe Adapter Function	-	-	-	-	•	-			
Adapter Function - Max Input Voltage	-	-	-	-	9.999 Vac/dc	-			
True InRush	-	-	-	-	•				
MULTIMETER FUNCTIONS									
Ohm	0.1 Ω - 600 k Ω	1 Ω - 10 k Ω	(0.2 - 600) Ω	0.1 Ω - 4 k Ω	0.1 Ω - 99.99 k Ω		0.1 Ω - 59.99 k Ω	0.1 Ω - 99.99 k Ω	
Continuity - Buzzer / Threshold Default	• / 45 Ω	• / 100 Ω	• / 35 Ω	• / 40 Ω	• / 40 Ω				
Continuity - Adjustable Threshold Range	-	-	-		1 - 999 Ω		1 - 599 Ω	1 - 999 Ω	
Diode Test - Junction	-	-	-	•	•		-		-
Temperature - K-type	-	-	-	-	(-76.0 to +2192) °F (-60.0 to +1200) °C	-			
POWER & ENERGY									
Power Values	-	-	-	-	-	W / var / VA			
Power - MAX - AC	-	-	-	-	-	2400 kW	600 kW	1000 kW	2000 kW
Energy Values	-	-	-	-	-	Wh / varh / VAh			
Energy - MAX Accumulation	-	-	-	-	-	999 G-h			
Harmonic Analysis	-	-	-	-	-	• up to 25th			
THDf / THDr	- / -	- / -	- / -	- / -	- / -	• / •	- / -	• / •	
PF / DPF	- / -	- / -	- / -	- / -	- / -	• / -		• / •	
CF / Ripple	- / -	- / -	- / -	- / -	- / -	- / -		• / •	
Phase Rotation	-	-	-	-	-	•		-	
OTHER FUNCTIONS & MODES									
Hold	•	•	•	•	•	•			
Min / Max	- / -	- / -	-	• / •	- / -	• / •			
Peak- / Peak+	- / •	- / •	- / •	• / •	- / -	• / •			
REL / Differential	• / -	• / -	• / •	• / •	• / •	• / •			- / -
Auto Power Off	•	•	•	•	•	•			
MEMORY & SOFTWARE									
Recording Of Data	-	-	-	-	-	-	-	• $\leq$ 1000 measurements	
Communication Method	-	-	-	-	-	-	-	Bluetooth  (BT Adapter Included)	
DataView Software	-	-	-	-	-	-	-	•  (Included)	
MECHANICALS, POWER & SAFETY									
Display	Backlit LCD	LCD	LCD		Backlit LCD				
Resolution	6000 counts	10,000 counts	6000 counts	4000 counts	10,000 counts		6000 counts	10,000 counts	
Power Supply	2 x 1.5 V AAA		2 x 1.5 V AAA	1 x 9 V LF22	4 x 1.5 V AA		1 x 9 V LF22	4 x 1.5 V AA	
Safety	600 V CAT III	600 V CAT II 300 V CAT III	600 V CAT III	1000 V CAT II 600 V CAT III	1500 V CAT III 1000 V CAT IV		600 V CAT IV	1000 V CAT IV	
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