

Your Best Partner for **PV** Inverters



More energy	Motech PVMate inverters have the highest CEC efficiency in its class, 96.0%. Maximum efficiency is 96.7%						
Certified	Certified for the new UL 1741/IEEE 1547						
Warranty	10 years, standard warranty						
Reliable and dependable	Motech has been in business for over 25 years, and it is the seventh largest solar cell manufacturer in the world						
Ease of installation & lower cost	Integrated DC disconnect switch and fused series string combiner						
Flexibility	Wide PV input MPPT tracking voltage range enables flexibility in module selection and sizing of PV system						
Light weight	$Motech {\tt PVM} at einverters are the lightest grid-connected inverters that have 96\% {\tt CEC} efficiency$						
Versatility	Suitable for residential or light commercial applications						
LCD display	Important system performance parameters are shown on a user-friendly LCD display						
Ease of serviceability	In the highly unlikely event that the inverter needs to be serviced, the independent inverter enclosure can easily be detached from the AC/DC wiring box, and the wiring box can remain intact on the wall						

Available exclusively from



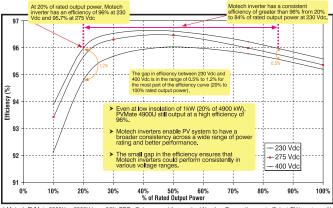
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What the World Needs. NOW®

PVMate 2900U 3840U 3900U 4900U 5300U

Negative ground inverters	PVMat	e 2900U	PVMate 3840U		PVMate 3900U		PVMate 4900U		PVMate	∋ 5300U						
		2900U-PG PVMate 3840U-PG		3840U-PG	PVMate 3900U-PG		PVMate 4900U-PG		PVMate 5300U-PG							
Dutput Data (AC)																
Dutput	240 V	208 V	240 V	208 V	240 V	208 V	240 V	208 V	240 V	208 V						
Grid voltage, nominal	2101	2001	2101	2001		auto select	2101	200 1	2101	2001						
Grid voltage, operating range*		1		1					1							
ond voltage, operating range	211 ~ 264 V _{AC}	183 ~ 228 V _{AC}	211 ~ 264 V _{AC}	183 ~ 228 V _{AC}	211 ~ 264 V _{AC}	183 ~ 228 V _{AC}	211 ~ 264 V _{AC}	183 ~ 228 V _{AC}	211 ~ 264 V _{AC}	183 ~ 228 V _A						
Grid frequency, nominal					60	Hz										
Grid frequency, operating range*																
ond requertey, operating range					59.3 ~	60.5 Hz										
Maximum output power	2900 W	2700 W	3840 W	3330 W	3900 W	3400 W	4900 W	4300 W	5300 W	4600 W						
Maximum output current		3 A		5 A		3 A		7 A		1 A						
Output over current protection																
	2	A	20 A		25 A		30 A		30 A							
Maximum output fault current									25 A							
	1:	5 A	20	A	2	0 A	25	5 A	25	δA						
Startup current					<	2 A										
Maximum grid backfeed current																
•					c	A										
Waveform	1				True	e sine										
Power factor						0.99										
Total harmonic distortion	1					3%										
DC component).5%										
Phase					Split Phase or \$	Single phase 240										
	•															
nput Data (DC)																
IPP voltage range					200 ~	550 V _{DC}										
Maximum input voltage																
	600 V _{DC}															
PV start voltage*	235 V _{DC}						25.4									
Maximum input current	10	6 A	20 A 20 A			UA	25 A 25 A			A						
Maximum input short circuit	24 A 24 A 24 A 30 A						30	30 A								
current																
Number of fused string inputs (Optional)		3	4				4									
(Optional)																
Efficiency																
Maximum efficiency	96.7%	96.4%	96.7%	96.5%	96.7%	96.5%	96.6%	96.4%	96.4%	96.2%						
CEC efficiency	96.0%	95.5%	96.0%	95.5%	96.0%	95.5%	96.0%	96.0%	96.0%	95.5%						
Night-time tare loss	96.0%	90.5%	96.0%	95.5%			96.0%	96.0%	96.0%	95.5%						
Night-time tare loss					0.	5W										
Environment	-															
Operating temperature range	-25 ~ +55°C (-13°F ~ +131°F)															
Maximum full power operating	55°C	(131°F)	55°C (131°F) 55°C (131°F)			55°C (131°F)	53°C (127.4°F)								
emperature without derating		,														
Relative humidity					Maxim	um 95%										
Mechanical																
Outdoor enclosure	NEMA 3R, Rainproof															
Cooling	Convection cooled Controlled forced ventilation															
nput and output terminals	Accept wire size of 4 to 16 mm ² (#12 to #6 AWG)															
nverter weight	23 kg (50.7 lb) 28 kg (61.7 lb)															
Shipping weight	27 kg (59.5 lb)						32 kg (70.5 lb)									
Dimensions(HxWxD)	732 x 454 x 175 mm (28.8 x 17.9 x 6.9 inches)						732 x 454 x 210 mm (28.8 x 17.9 x 8.3 inches)									
Shipping dimensions(HxWxD)																
shipping uniensions(ExVVXD)	840 x 540 x 275 mm (33.1 x 21.3 x 10.8 inches) 840 x 548 x 305 mm (33.1 x 21.6 x 12 inches)															
	I															
Features																
				Beene	and DC49E (wind)	o communication in	antional)									
	RS232 and RS485 (wireless communication is optional)															
Communications	LED / LCD															
Communications Display				10.4744			UL1741, FCC part 15B, IEEE 1547, IEEE C62.41.2, IEEE C37.90.1									
Communications Display Certifications				UL1741, FCC			EEE C37.90.1									
Communications Display Certifications Warranty				UL1741, FCC		47, IEEE C62.41.2, I years	EEE C37.90.1									

96% CEC efficiency, the highest on CEC inverter list^{*}



Motech PVMate 2900U ~ 5300U have 96% CEC efficiency, and they ranked Number One as the most efficient PV inverters with transformers according to CEC inverter list, http://www.consumerenergycenter.org/cgi-bin/eligible_inverters.cgi

Modern Technology for a Sustainable World MOTECH INSTRUMENTS

MOTECH INDUSTRIES INC.

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Betterperformanceathightemperature

Motech inverters operate at full rated power in hot climates up to 53° C.

Greater flexibility

The MPPT tracking voltage for Motech inverters is from 200 V to 550 V giving greater flexibility in module selection and sizing of PV systems.



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