

Delta RPI-Commercial Series

RPI - M12 / M15A / M20A / M30

Delta RPI - Commercial series comes in RPI12, RPI M15A, RPI M20A and RPI M30 models of transformerless PV inverters. With Delta's cutting-edge technology the commercial series are with efficiencies as high as 98.2%. These inverters are compact in size with durable quality to ensure smooth PV system operation.



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RPI - M12 / M15A / M20A / M30

Technical Specifications

Model		RPI-M12	RPI-M15A	RPI-M20A	RPI-M30
Isolation Type		Transformerless	Transformerless	Transformerless	Transformerless
Input (DC)	Max. DC voltage	1000V	1000V	1000V	1000V
	Working voltage range	200~1000V	200~1000V	200~1000V	200~1000V
	Full power voltage range	416~850V	355~850V	470~850V	480~800V
	Start up voltage	> 250V	> 250V	> 250V	> 250V
	Nominal DC voltage	650V	650V	650V	650V
	Max. input current	Each MPPT: 20A	Each MPPT: 22A	Each MPPT: 22A	Each MPPT: 34A
	Total current	30A	44A	44A	68A
	MPPT	2	2	2	2
	Connection Type	4 pairs MC4	4 pairs MC4	4 pairs MC4	6 pairs MC4
Output (AC)	Output power	12000VA	15000VA	20000VA	30000VA
	Max. output current	19A	25A	32A	46A
	Max. voltage range	3Ph 230/400± 20%	3Ph 230/400± 20%	3Ph 230/400± 20%	3Ph 230/400± 20%
	Max. frequency range	50 / 60Hz ± 5Hz	50 / 60Hz ± 5Hz	50 / 60Hz ± 5Hz	50 / 60Hz ± 5Hz
	Reactive power	0.8 ind - 0.8 cap	0.8 ind - 0.8 cap	0.8 ind - 0.8 cap	0.8 ind - 0.8 cap
	Harmonic distortion	<3%	<3%	<3%	<3%
Efficiency	Peak efficiency	98.30%	98.30%	98.30%	98.20%
	Euro efficiency	97.70%	97.70%	97.70%	97.60%
Communication	Communication port	RS485	RS485	RS485	RS485
	Display	5" LCD	5" LCD	5" LCD	5" LCD
	Built-in Energy logger	YES	YES	YES	YES
System Safety	Operating temp. range	-20°C ~ 60°C	-20°C ~ 60°C	-20°C ~ 60°C	-20°C ~ 60°C
	Night time consumption	<2W	<2W	<2W	<2W
	Protection Level	IP65	IP65	IP65	IP65 for electrical / IP54 for cooling system
	Operating elevation	<2000m	<2000m	<2000m	<2000m
	Certification	VDE-AR-N 4105	VDE-AR-N 4105	VDE-AR-N 4105	VDE-AR-N 4105
		RD1699	BDEW	RD1699	RD1699
		CEI 0-21	RD1699	CEI 0-21	CEI 0-21
		AS4777	CEI 0-21	AS4777	AS4777
		Golden Sun	AS4777	Golden Sun	Golden Sun
		IEC-62109	Golden Sun	IEC-62109	IEC-62109
		IEC-61000-6-2	IEC-62109	IEC-61000-6-2	IEC-61000-6-2
		IEC-61000-6-3	IEC-61000-6-2	IEC-61000-6-3	IEC-61000-6-3
			IEC-61000-6-3		
Mechanical information	Dimension (mm)	625 x 612 x 278	625 x 612 x 278	625 x 612 x 278	960 X 612 X 278
	Weight (kg)	40	43	43	72

All specifications are subject to change without prior notice.

