

## Grid Connected PV Inverters

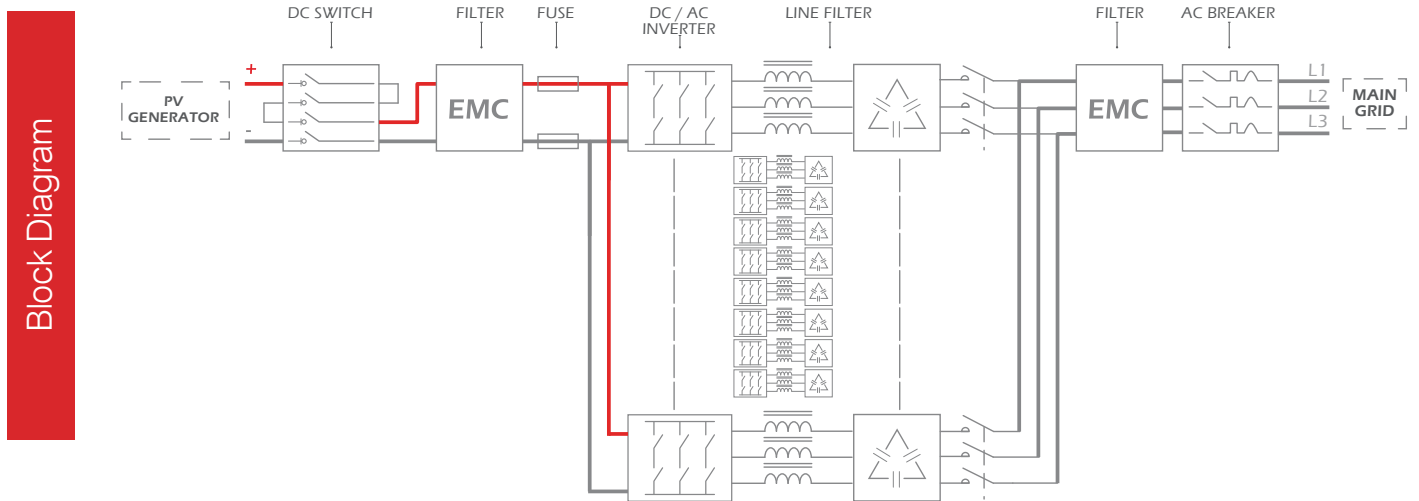
Technical Data		R 6800 TL	R 7500 TL
Input (DC)	Max DC Power (@ $\cos\phi = 1$ )	680 kW	750 kW
	Max Input Voltage ( $V_{\max,abs}$ )	1000 V	1000 V
	MPPT Input DC Range ( $V_{MPPTmin} \dots V_{MPPTmax}$ )	485 V - 820 V	485 V - 820 V
	Number of Independent MPPT	1	1
	Maximum Combined DC Input Current ( $I_{dcmaxc}$ )	1350 A	1500 A
	Maximum DC Input Current for Each Module ( $I_{dcmax,m}$ )	150 A	150 A
	Number of DC Inputs Pairs	6 with Flexinput <sup>#</sup> (extendable)	6 with Flexinput <sup>#</sup> (extendable)
	DC Connection Type (Both positive and negative polarity)	Ring Terminal Lug	Ring Terminal Lug
Output (AC)	AC Grid Connection Type (1-phase / 3-phase)	3 - phase	3 - phase
	Rated AC Power ( $P_{acr}$ ) @ 25°C / 50°C	621 kW @ 50°C	690 kW @ 50°C
	Rated Grid Voltage ( $V_{acr}$ )	270 V $\pm$ 10%	270 V $\pm$ 10%
	Maximum Output Current ( $I_{acmax}$ )	1227 A	1480 A
	Rated Frequency (fr)	50 Hz / 60 Hz	50 Hz / 60 Hz
	Frequency Range ( $f_{min} \dots f_{max}$ )	47 Hz .... 63 Hz	47 Hz .... 63 Hz
	Nominal Power Factor	> 0.99	> 0.99
	Adjustable Shift Factor	0.9 Leading ... 0.9 Lagging	0.9 Leading ... 0.9 Lagging
	Total Harmonic Distortion of AC Current Waveform	< 3%	< 3%
	Transformer	Transformerless	Transformerless
	AC Connection Type (For each phase)	Ring Terminal Lug	Ring Terminal Lug
	Protection	Input Disconnection Device	Integrated DC Switch Disconnecter
Input Over Voltage Protection		SPD Varistors (Class II)	SPD Varistors (Class II)
Residual Current Protection (Ground fault)		□	□
Insulation Monitoring		YES	YES
Reverse Polarity Protection		YES	YES
Input Over Current Protection		YES with Flexinput <sup>#</sup>	YES with Flexinput <sup>#</sup>
Fuse Size on Input		Customizable with Flexinput <sup>#</sup>	Customizable with Flexinput <sup>#</sup>
Output Disconnection Device		YES with Circuit Breaker	YES with Circuit Breaker
Anti-Islanding Protection		YES	YES
Output Under/ Over Voltage Protection		YES	YES
Under / Over Frequency Protection		YES	YES
Night Time Disconnect		□	□
Lightning Protection		YES	YES
Physical	Dimension (H x W x D)	2230 x 1996 x 825 mm	2230 x 1996 x 825 mm
	Weight	1610 kg	1670 kg

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Operating Performance	Maximum Efficiency ( $\eta_{max}$ )	98.80%	98.80%
	Weighted Efficiency ( $\eta_{EURO}/\eta_{CEC}$ )	98.30%	98.30%
	Stand-by Consumption / Night-time Power Loss	< 60 W	< 60 W
	AC Auxiliary Supply	230 V $\pm$ 10% - 16 A (L-N)	230 V $\pm$ 10% - 16 A (L-N)
	Own Consumption During Operation	540 W	600 W
	Cooling Method	Air Forced	Air Forced
	Fresh Airflow Requirement	3690 m <sup>3</sup> /h	4100 m <sup>3</sup> /h
Environment	Degree of Protection	IP 20	IP 20
	Ambient / Operating Temperature Range (Nominal rating)	(-10° C + 50° C)	(-10° C + 50° C)
	Max. Ambient Temperature	(-10° C + 50° C)	(-10° C + 50° C)
	Relative Humidity (Non-condensing)	0 $\pm$ 95%	0 $\pm$ 95%
	Noise Emission	< 70 dB	< 70 dB
	Maximum Operating Altitude Without Derating	2000 mt	2000 mt
Communication	Communication protocols	ModBus TCP/IP, RTU, Ethernet	ModBus TCP/IP, RTU, Ethernet
	Remote Monitoring	<input type="checkbox"/>	<input type="checkbox"/>
	Remote Control	<input type="checkbox"/>	<input type="checkbox"/>
	Display	ESA Computer Touchscreen	ESA Computer Touchscreen
	Local User Interface	Local User Interface Available	Local User Interface Available
Grid Assistance	Reactive / Active Power Control	YES	YES
	Dynamic Grid Support (Fault Ride through)	YES	YES
	Power Factor Control	YES	YES
Compliance	Safety and EMC Standards	IEC 61000*, IEC 62109*, IEC 62116	IEC 61000*, IEC 62109*, IEC 62116
	Certifications and Grid Standards	CE conformity, CEI 016, BDEW, IEC 61683, IEC 60068-2*, IEC 62116	CE conformity, CEI 016, BDEW, IEC 61683, IEC 60068-2*, IEC 62116

\*Multiple sub-chapters are included. More details available upon request.

# Flexinput; Customized Input DC module with fuse protection.

Optional feature



Block Diagram



HEAD OFFICE : RPG House, 463, Dr. Annie Besant Road, Worli, Mumbai- 400 030. India. | Tel: +91-22-24937485/ 6, 39509400

SALES OFFICES : Thane: +91-22-61847300 • New Delhi: +91-11-45753700 • Kolkata: +91-33-40044082 • Bengaluru: +91-80-40676666 • Chennai: +91-44-65718439 • Hyderabad: +91-40-30901642

CONTACT INFO : sales\_inverter@raychemrpg.com | services\_inverter@raychemrpg.com • www.raychemrpg.com/inverters