



THREE
PHASE



APS GTI 1.0

90 KW TO 110 KW

- WIDE RANGE OF AC VOLTAGE & FREQUENCY TO ADAPT TO THE ADVERSE GRID SITUATION IN INDIA
- ULTRA HIGH PERFORMANCE DYNAMIC MPPT EFFICIENCY
- MUCH LOWER AC CURRENT THD : 1.5%
- MUCH ACCURATE AC POWER

Australian Premium Solar (India) Ltd.

- **Corporate / Sales Office** : 301, 3rd floor, Satyamev Eminence, Nr. Shukan Mall, Science City Road, Ahmedabad, Gujarat-380060
- **Factory** : Near Tajpur GEB Substation, Tajpur, National Highway 8, Prantij, Gujarat-383205



R-72001791

MODEL	90 KW	100 KW	110 KW
Energy Source	GRID-CONNECTED PV		
INPUT (DC)			
Max.PV Input Power(kW)	135	150	150
Max.PV Input Voltage (V)	1000		
Start-up DC Input Voltage (V)	250		
MPPT Operating Range (V)	200-850		
Rated PV Input Voltage (V)	600		
Max. Operating PV Input Current (A)	40+40+40+40+40+40		
Max. Input Short Circuit Current (A)	60+60+60+60+60+60		
No.of MPPT Trackers / Strings Per MPPT Tracker	6/4+4+4+4+4		
AC Output Side			
Rated AC Output Active Power (KW)	90	100	110
Max.AC Output Apparent Power (kva)	99	110	121
Rated AC Output Current (A)	136.4/130.4	151.5/144.9	166.7/159.4
Max.AC Output Current (A)	150/143.5	166.7/159.4	183.3/175.4
Rated Output Voltage / Range (V)	220/380V, 230/400V 0.85Un-1.1Un		
Grid Connection Form	3L/N/PE		
Rated Output Grid Frequency / Range (Hz)	50/45-55, 60/55-65		
Power Factor Adjustment Range	0.8 Leading to 0.8 Lagging		
Total Current Harmonic Distortion THDi	<3%		
DC Injection Current	<0.5% In		
Efficiency			
Max.Efficiency	98.8%		
Euro Efficiency	98.2%		
MPPT Efficiency	>99%		
Equipment Protection			
DC Polarity Reverse Connection Protection	Yes		
AC Output Overcurrent Protection	Yes		
AC Output Overvoltage Protection	Yes		
AC Output Short Circuit Protection	Yes		
Thermal Protection	Yes		
DC Terminal Insulation Impedance Monitoring	Yes		
DC Component Monitoring	Yes		
Ground Fault Current Monitoring	Yes		
Power Network Monitoring	Yes		
Island Protection Monitoring	Yes		
Earth Fault Detection	Yes		
Overvoltage Load Drop Protection	Yes		
Residual Current (RCD) Detection	Yes		
Surge Protection Level	TYPE II (DC), TYPEII (AC)		
Interface			
Communication Interface	RS485/RS232/WiFi/LAN		
General Data			
Operating Temperature Range (°C)	-25 to 65°C, >45°C Derating		
Permissible Ambient Humidity	0-100%		
Permissible Altitude (m)	4000m		
Noise (dB)	≤55		
Ingress Protection (IP) Rating	IP65		
Inverter Topology	Non-Isolated		
Over Voltage Category	OVCI(DC), OVCI(AC)		
Cabinet Size	826x516x312.7 (Excluding Connectors and Brackets)		
Weight	81		
Type of Cooling	Intelligent Air Cooling		
Grid Regulation	IEC 61727, IEC 62116, CEI 0-21, EN 50549, NRS 097, RD 140, UNE 217002, OVE-Richtlinie R25, G99, VDE-AR 4105		
Safety EMC / Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109, IEC/EN 62109-2		