



# THREE PHASE



## APS GTI 1.0 40 KW TO 50 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	40 KW	45 KW	50 KW
Energy Source	GRID-CONNECTED PV		
<b>INPUT (DC)</b>			
Max.PV Input Power(kW)	52	58.5	65
Max.PV Input Voltage (V)	1100		
Start-up DC Input Voltage (V)	250		
MPPT Operating Range (V)	200-1000		
Rated PV Input Voltage (V)	600		
Max. Operating PV Input Current (A)	40+40+40		40+40+40+40
Max. Input Short Circuit Current (A)	60+60+60		60+60+60+60
No.of MPPT Trackers / Strings Per MPPT Tracker	3/3+3+3		4/3+3+3+3
<b>AC Output Side</b>			
Rated AC Output Active Power (KW)	40	45	50
Max.AC Output Apparent Power (kva)	44	49.5	55
Rated AC Output Current (A)	60.6/58	68.2/65.2	75.8/72.5
Max.AC Output Current (A)	66.7/63.8	75/71.7	83.3/79.7
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		
<b>Efficiency</b>			
Max.Efficiency	98.7%		
Euro Efficiency	98.1%		
MPPT Efficiency	>99%		
<b>Equipment Protection</b>			
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)		
<b>Interface</b>			
Communication Interface	RS485/RS232/WiFi/LAN		
<b>General Data</b>			
Operating Temperature Range (°C)	-25 to 65°C, >45°C Derating		
Permissible Ambient Humidity	0-100%		
Permissible Altitude (m)	4000m		
Noise (dB)	≤50		
Ingress Protection (IP) Rating	IP65		
Inverter Topology	Non-Isolated		
Over Voltage Category	OVCI(DC), OVCI(AC)		
Cabinet Size	434x570x243 (Excluding Connectors and Brackets)		
Weight	37.1		
Warranty	10 Years		
Type of Cooling	Intelligent Air Cooling		
Grid Regulation	IEC 61727, IEC 62116, CEI 0-21, EN 50549, NRS 097, RD 140, UNE 217002, G99, VDE-AR 4105		
Safety EMC / Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109, IEC/EN 62109-2		